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FILE 'HCAPLUS' ENTERED AT 13:41:24 ON 22 SEP 2006
E US20050159359/PN

L1 1 S E3
SEL RN

FILE 'REGISTRY' ENTERED AT 13:41:46 ON 22 SEP 2006

L2 378 S E1-E378
L3 STR
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L5 STR L3
L6 3 S L5
L7 STR L5
L8 3 S L7
L9 66 S L7 FUL
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L10 7 S L9

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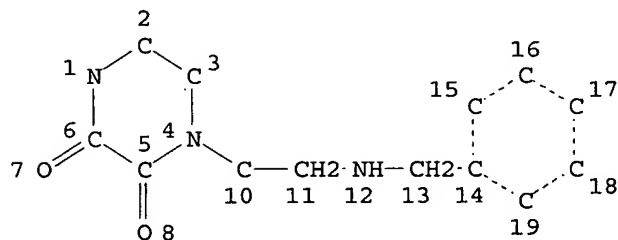
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L7 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
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FILE 'HCAPLUS' ENTERED AT 14:26:41 ON 22 SEP 2006

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L10 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:474920 HCAPLUS

DOCUMENT NUMBER: 143:19969

TITLE: Peptidyl and nonpeptidyl compounds for
derepression of IAP-inhibited caspase and
therapeutic and drug screening uses

INVENTOR(S): Reed, John C.; Houghten, Richard A.; Nefzi,
Adel; Ostresh, John M.; Pinilla, Clemencia;
Welsh, Kate

PATENT ASSIGNEE(S): The Burnham Institute, USA; Torrey Pines
Institute for Molecular Studies

SOURCE: U.S. Pat. Appl. Publ., 182 pp., Cont.-in-part
of U.S. Ser. No. 302,811.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2005119176	A1	20050602	US 2003-748128	2003 1224
US 2003180805	A1	20030925	US 2002-302811	2002 1121
US 6911426	B2	20050628		
US 2005159359	A1	20050721	US 2004-21517	2004 1223
PRIORITY APPLN. INFO.:			US 2001-331957P	P 2001 1121
			US 2002-302811	A2 2002 1121

AB The invention provides isolated agents having a core peptidyl or nonpeptidyl (e.g., urea derivative, diketopiperazine derivative) structure, wherein the agent derepresses an IAP-inhibited caspase. The invention also provides a method of derepressing an IAP-inhibited caspase. The method consists of contacting an IAP-inhibited caspase with an effective amount of an agent to derepress an IAP-inhibited caspase. The methods of the invention can be used for promoting apoptosis in a cell and for reducing the severity of a pathol. (e.g., cancer) characterized by reduced levels of apoptosis. Methods for identifying agents that derepress an IAP-inhibited caspase are also provided.

IT 537051-58-4 537051-59-5 537053-07-9
537053-08-0 537053-09-1 537053-10-4
537053-11-5 537053-12-6 537053-13-7

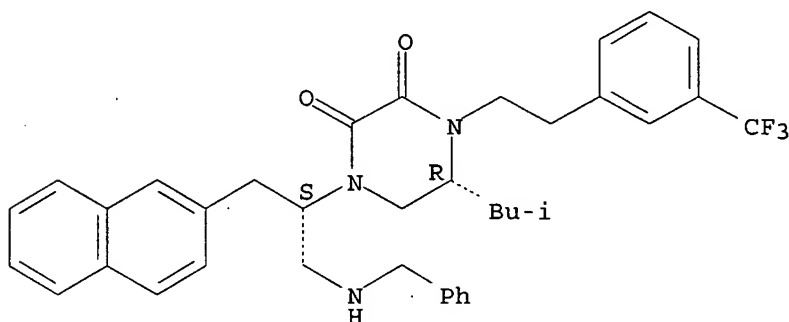
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 540529-41-7 540529-43-9 540529-46-2
 540529-48-4 540529-50-8 852819-52-4

(peptidyl and nonpeptidyl compds. for derepression of
 IAP-inhibited caspase and therapeutic and drug screening uses)

RN 537051-58-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-4-[2-[3-(trifluoromethyl)phenyl]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

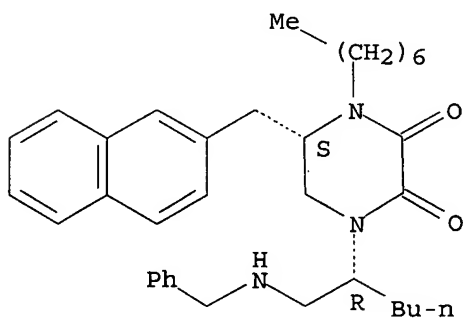
Absolute stereochemistry.



RN 537051-59-5 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1R)-1-[[[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

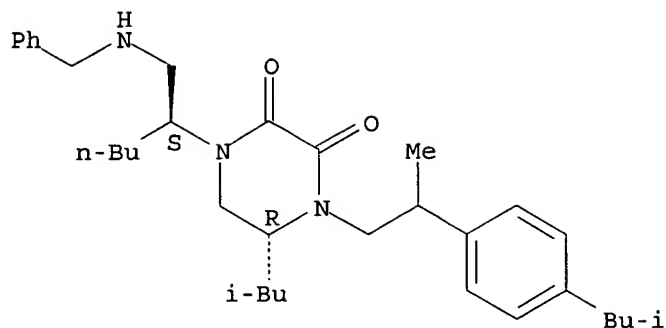
Absolute stereochemistry.



RN 537053-07-9 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1S)-1-[[[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

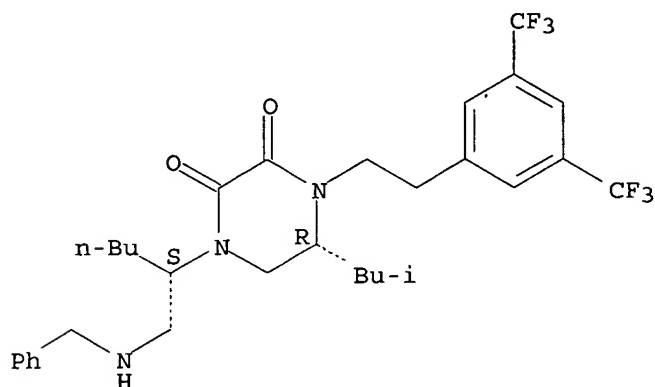
Absolute stereochemistry.



RN 537053-08-0 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)-(9CI) (CA INDEX NAME)

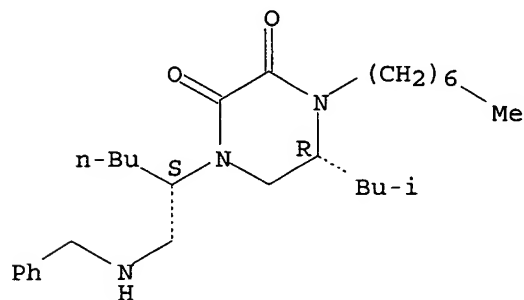
Absolute stereochemistry.



RN 537053-09-1 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

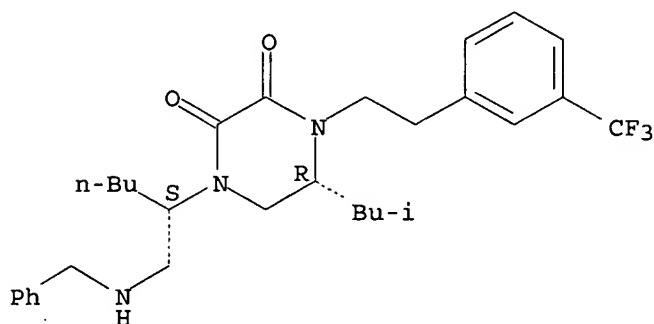


RN 537053-10-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-

(trifluoromethyl)phenyl]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

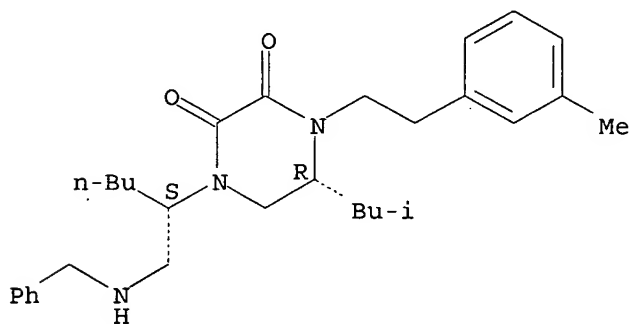
Absolute stereochemistry.



RN 537053-11-5 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

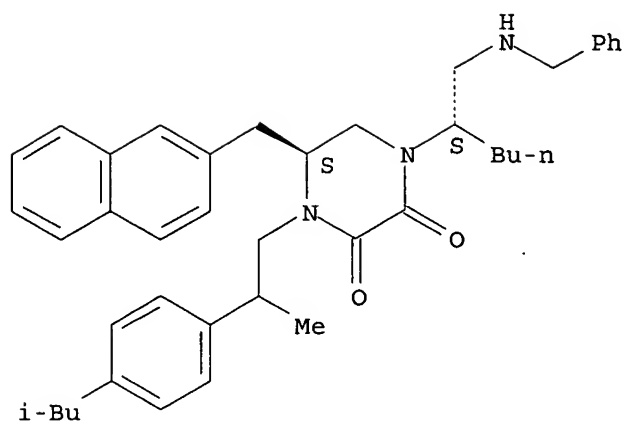
Absolute stereochemistry.



RN 537053-12-6 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

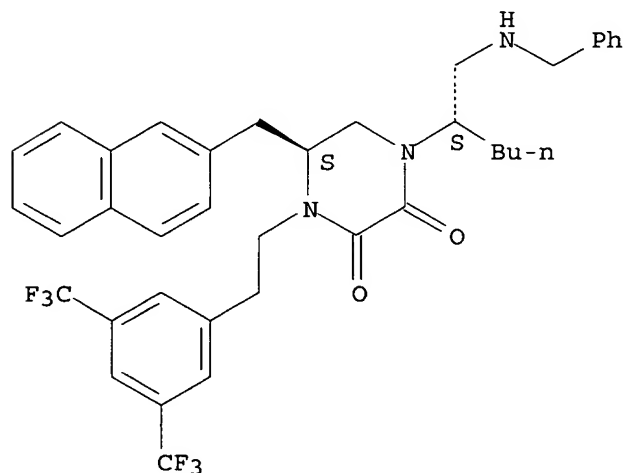
Absolute stereochemistry.



RN 537053-13-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

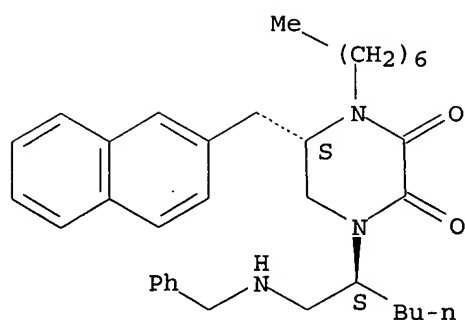
Absolute stereochemistry.



RN 537053-14-8 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

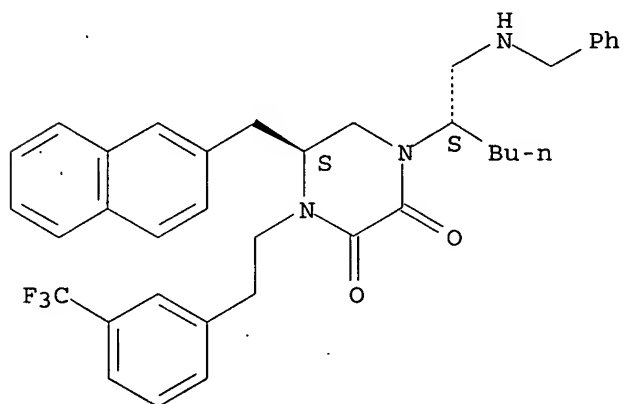
Absolute stereochemistry.



RN 537053-15-9 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-naphthalenylmethyl)-1-[(1S)-1-
 [[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-
 (trifluoromethyl)phenyl]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

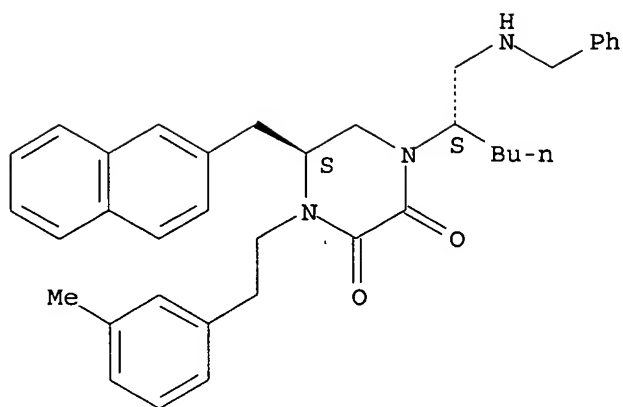
Absolute stereochemistry.



RN 537053-16-0 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-
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 , (5S)- (9CI) (CA INDEX NAME)

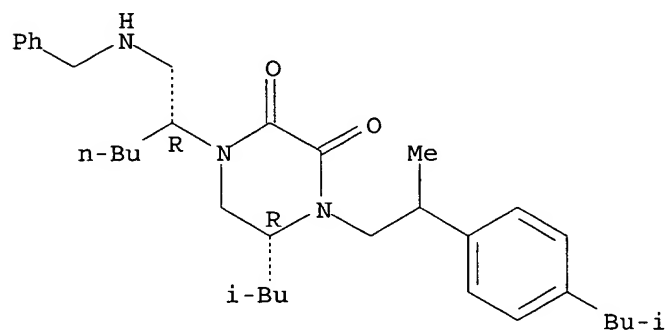
Absolute stereochemistry.



RN 537053-17-1 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

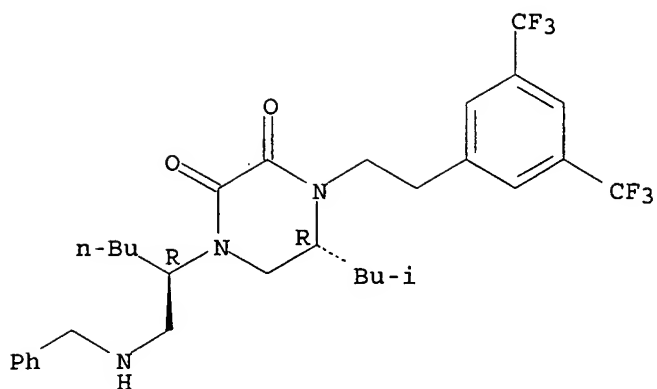
Absolute stereochemistry.



RN 537053-18-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

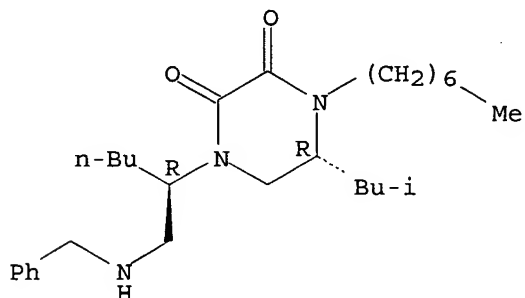
Absolute stereochemistry.



RN 537053-19-3 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-methylpropyl)-1-[(1R)-1-
[[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX
NAME)

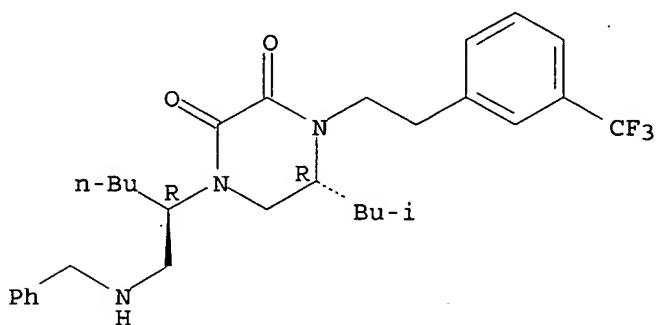
Absolute stereochemistry.



RN 537053-20-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1R)-1-
[[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-
(trifluoromethyl)phenyl]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

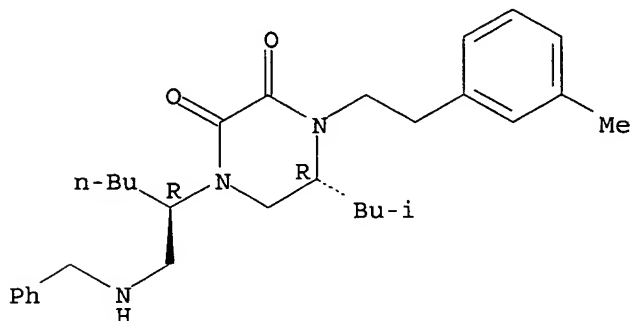


RN 537053-21-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-

methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-,
(5R)-(9CI) (CA INDEX NAME)

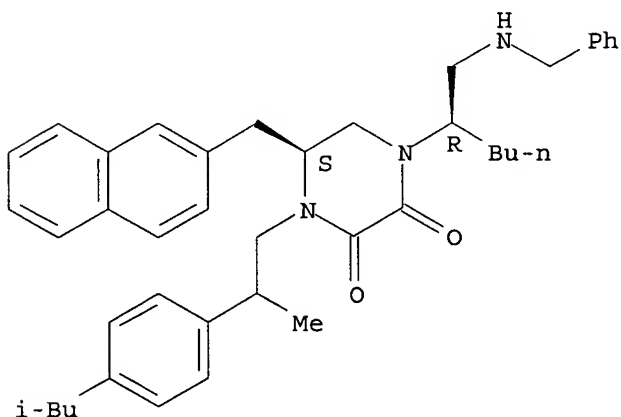
Absolute stereochemistry.



RN 537053-22-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

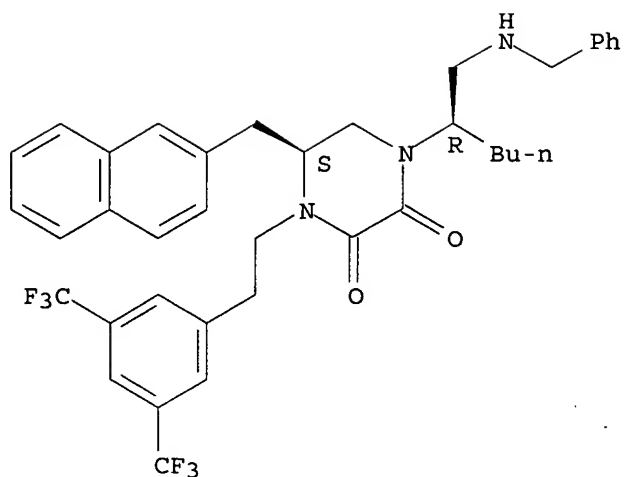
Absolute stereochemistry.



RN 537053-23-9 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

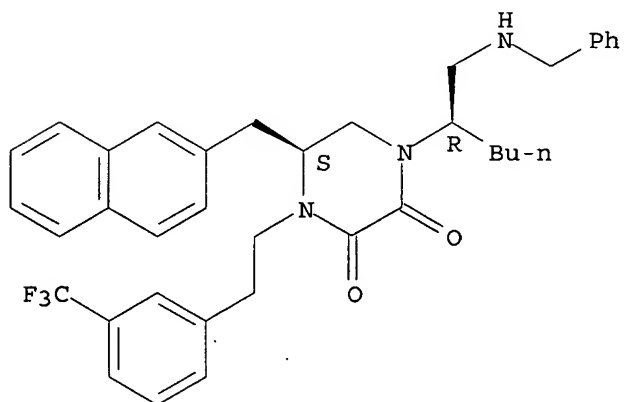
Absolute stereochemistry.



RN 537053-24-0 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-naphthalenylmethyl)-1-[(1R)-1-
[[[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-
(trifluoromethyl)phenyl]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

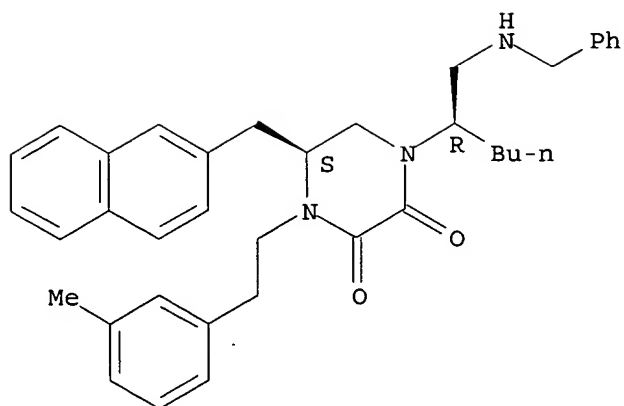
Absolute stereochemistry.



RN 537053-25-1 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-
naphthalenylmethyl)-1-[(1R)-1-[[[(phenylmethyl)amino]methyl]pentyl]-
, (5S)- (9CI) (CA INDEX NAME)

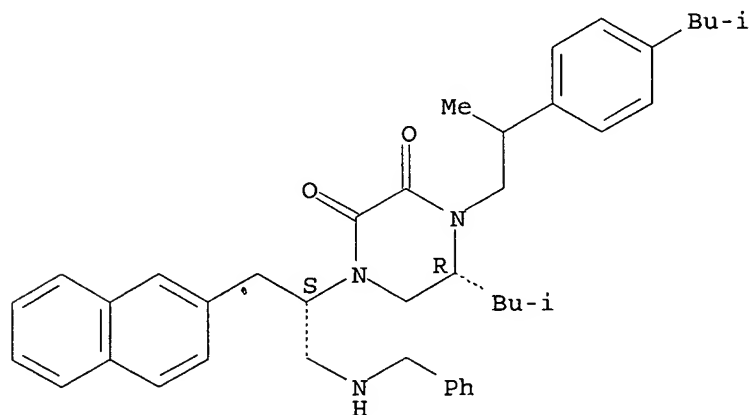
Absolute stereochemistry.



RN 537053-26-2 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)-(9CI) (CA INDEX NAME)

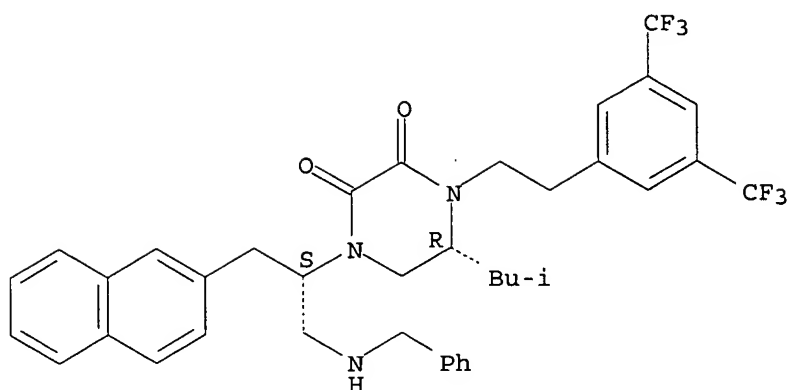
Absolute stereochemistry.



RN 537053-27-3 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)-(9CI) (CA INDEX NAME)

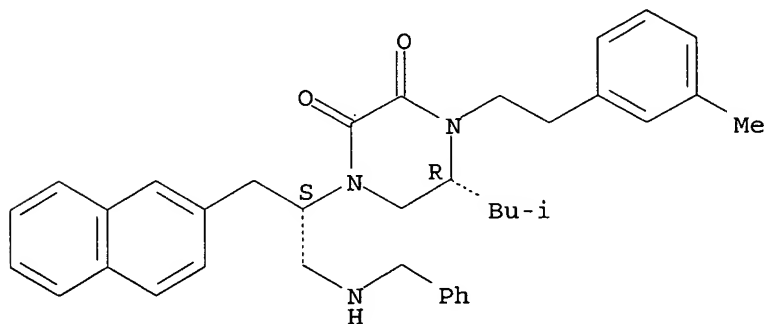
Absolute stereochemistry.



RN 537053-28-4 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

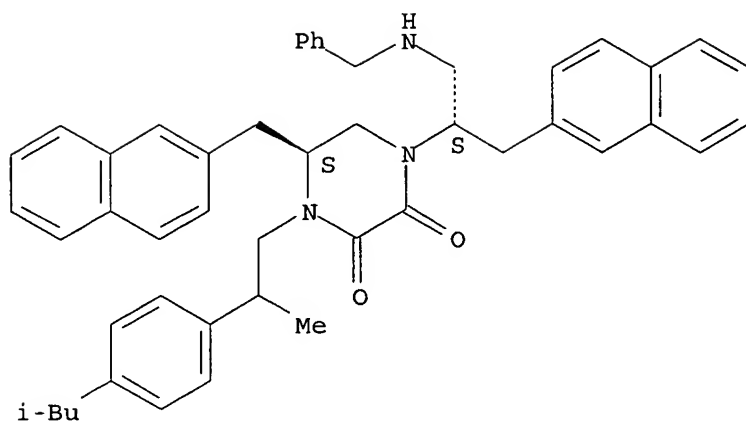
Absolute stereochemistry.



RN 537053-29-5 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

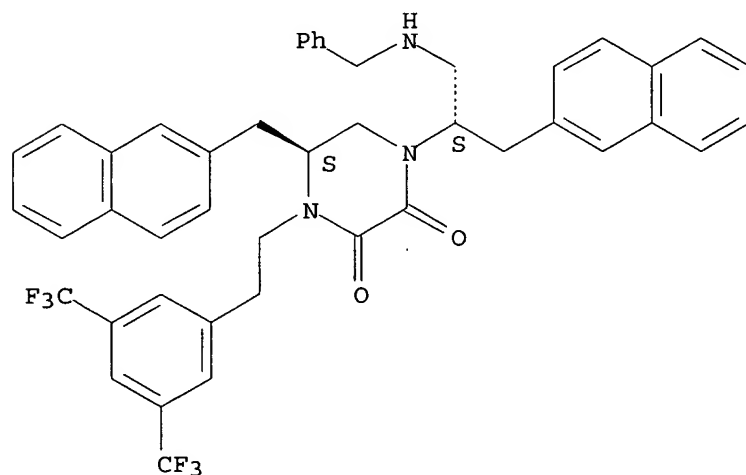
Absolute stereochemistry.



RN 537053-30-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

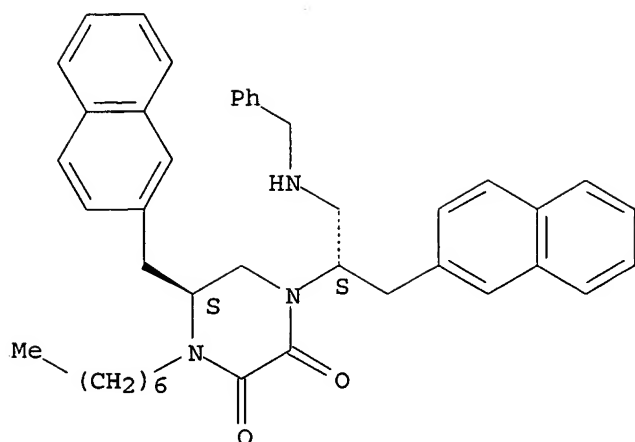
Absolute stereochemistry.



RN 537053-31-9 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

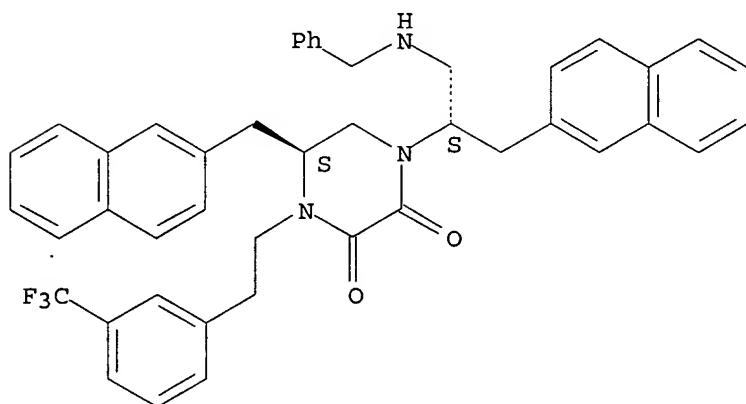
Absolute stereochemistry.



RN 537053-32-0 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-4-[2-[3-(trifluoromethyl)phenyl]ethyl]-, (5S)-(9CI) (CA INDEX NAME)

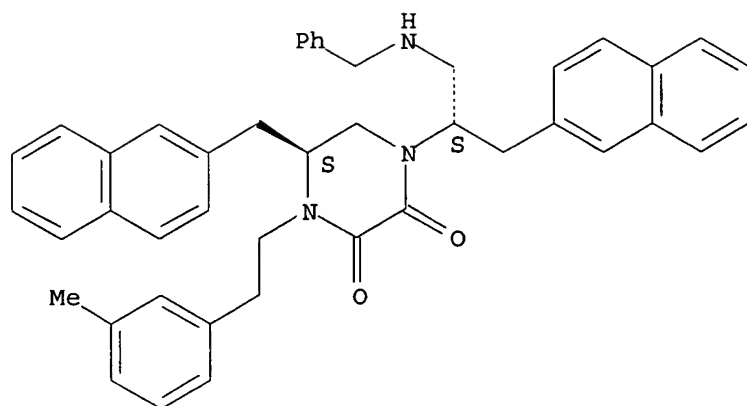
Absolute stereochemistry.



RN 537053-33-1 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)-(9CI) (CA INDEX NAME)

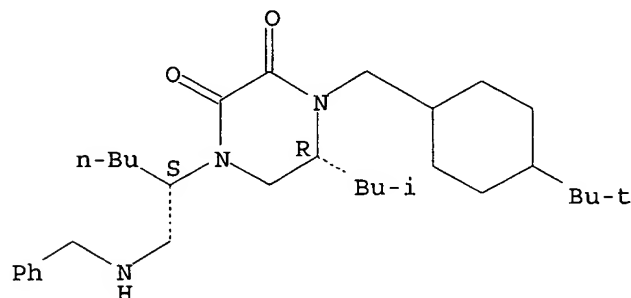
Absolute stereochemistry.



RN 540529-39-3 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl-, (5R)- (9CI) (CA INDEX NAME)

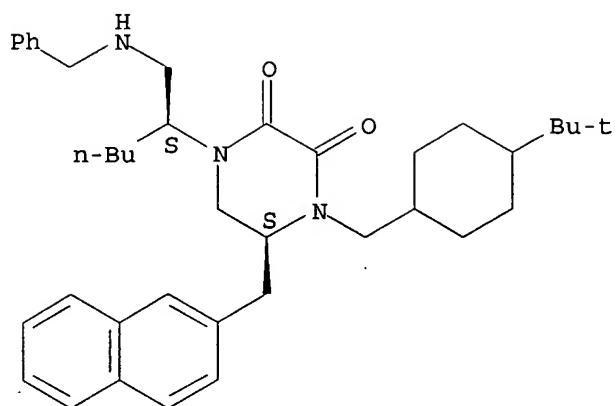
Absolute stereochemistry.



RN 540529-41-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl-, (5S)- (9CI) (CA INDEX NAME)

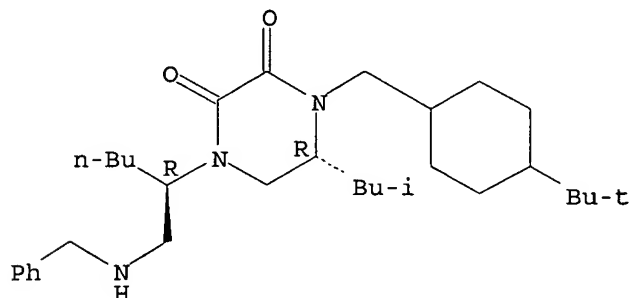
Absolute stereochemistry.



RN 540529-43-9 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

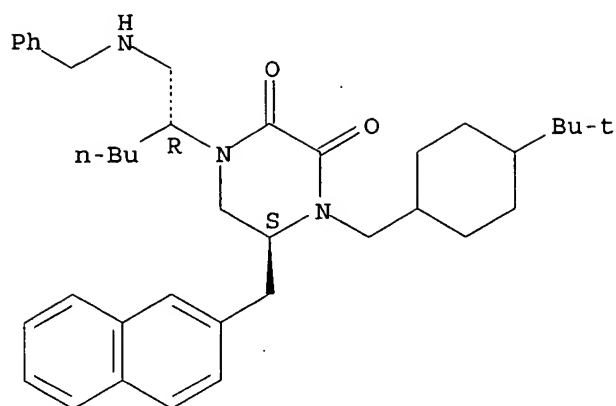
Absolute stereochemistry.



RN 540529-46-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

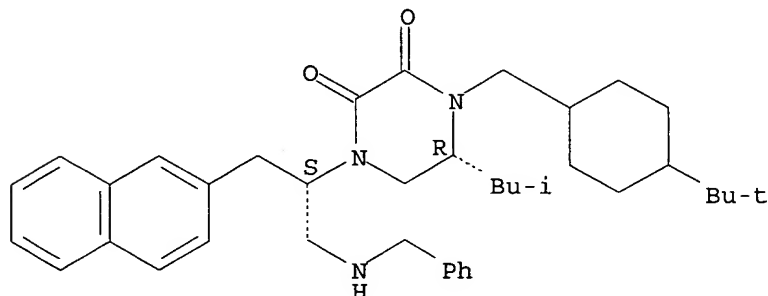
Absolute stereochemistry.



RN 540529-48-4 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

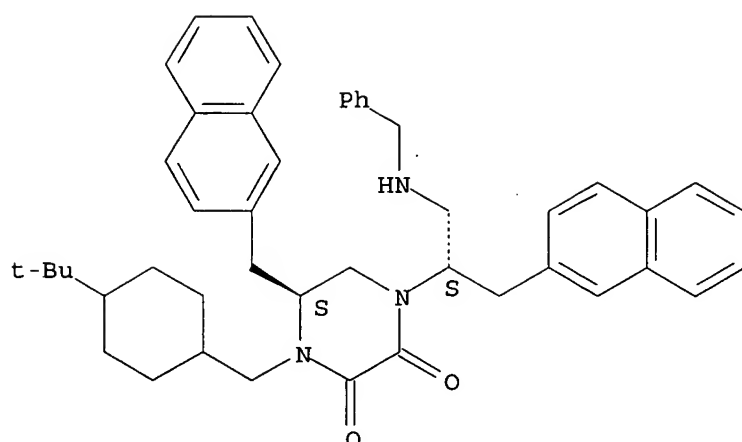
Absolute stereochemistry.



RN 540529-50-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

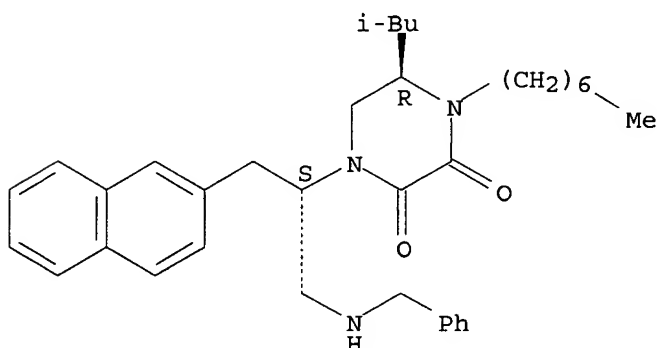
Absolute stereochemistry.



RN 852819-52-4 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)-(9CI)
(CA INDEX NAME)

Absolute stereochemistry.



IC ICM C12N009-99

ICS A61K038-52

INCL 514012000; 435325000; 435184000

CC 1-6 (Pharmacology)

Section cross-reference(s): 7

IT	295343-36-1	295343-40-7	537050-97-8	537051-01-7
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(peptidyl and nonpeptidyl compds. for derepression of
IAP-inhibited caspase and therapeutic and drug screening uses)

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(peptidyl and nonpeptidyl compds. for derepression of
IAP-inhibited caspase and therapeutic and drug screening uses)

L10 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:434582 HCAPLUS

DOCUMENT NUMBER: 139:30774

TITLE: Methods and compositions using peptidyl and
nonpeptidyl compounds for derepression of
IAP-inhibited caspase, therapeutic use, and
methods for identification of agents

INVENTOR(S): Reed, John C.; Houghten, Richard A.; Nefzi,
Adel; Ostresh, John M.; Pinilla, Clemencia;
Welsh, Kate

PATENT ASSIGNEE(S): The Burnham Institute, USA; Torrey Pines
Institute for Molecular Studies

SOURCE: PCT Int. Appl., 182 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1615148 A 20050511 CN 2002-827412

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PRIORITY APPLN. INFO.: US 2001-331957P P

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WO 2002-US37577 W

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AB The invention provides isolated agents having a core peptidyl or nonpeptidyl (e.g. urea derivative, diketopiperazine derivative) structure, wherein the agent derepresses an IAP-inhibited caspase. The invention also provides a method of derepressing an IAP-inhibited caspase. The method consists of contacting an IAP-inhibited caspase with an effective amount of an agent to derepress an IAP-inhibited caspase. The methods of the invention can be used for promoting apoptosis in a cell and for reducing the severity of a pathol. (e.g. cancer) characterized by reduced levels of apoptosis. Methods for identifying agents that derepress an IAP-inhibited caspase are also provided.

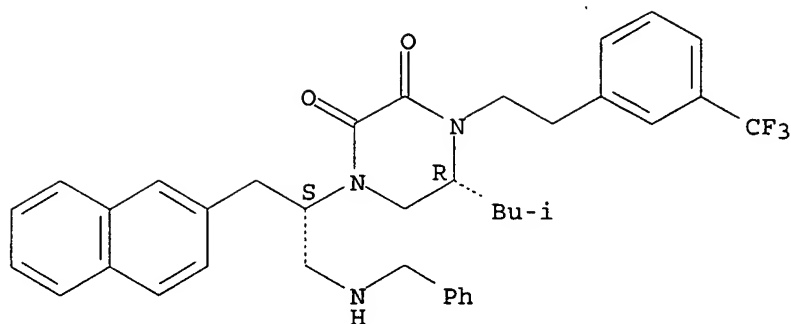
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(peptidyl and nonpeptidyl compds. for derepression of
IAP-inhibited caspase, therapeutic use, and methods for
identification of agents)

RN 537051-58-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-4-[2-[3-(trifluoromethyl)phenyl]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

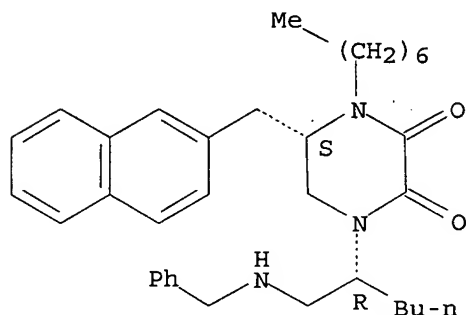
Absolute stereochemistry.



RN 537051-59-5 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

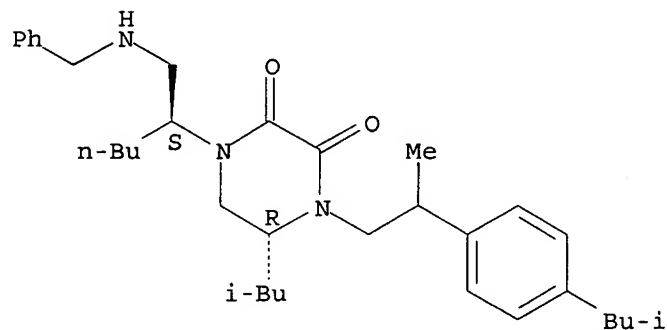
Absolute stereochemistry.



RN 537053-07-9 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

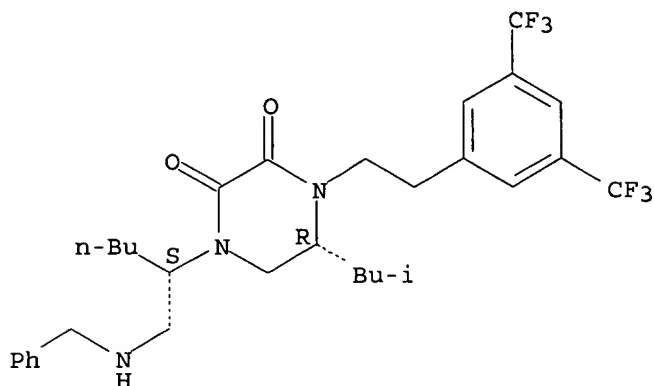


RN 537053-08-0 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

(5R) - (9CI) (CA INDEX NAME)

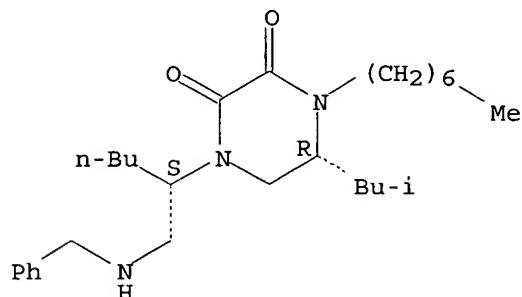
Absolute stereochemistry.



RN 537053-09-1 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-methylpropyl)-1-[(1S)-1-
[[phenylmethyl]amino]methyl]pentyl]-, (5R) - (9CI) (CA INDEX
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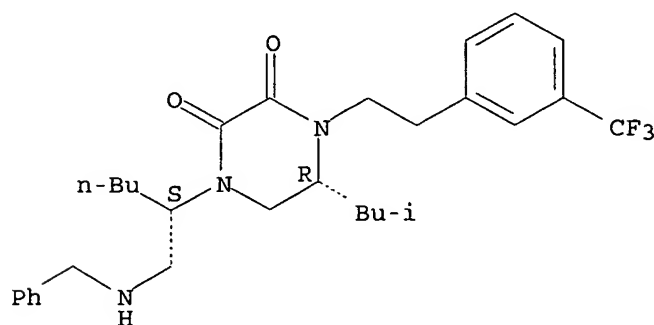
Absolute stereochemistry.



RN 537053-10-4 HCAPLUS

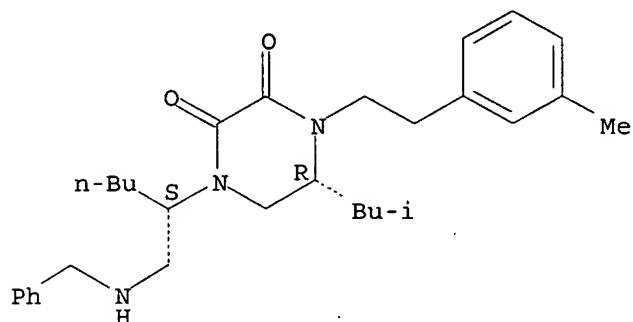
CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1S)-1-
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(trifluoromethyl)phenyl]ethyl]-, (5R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



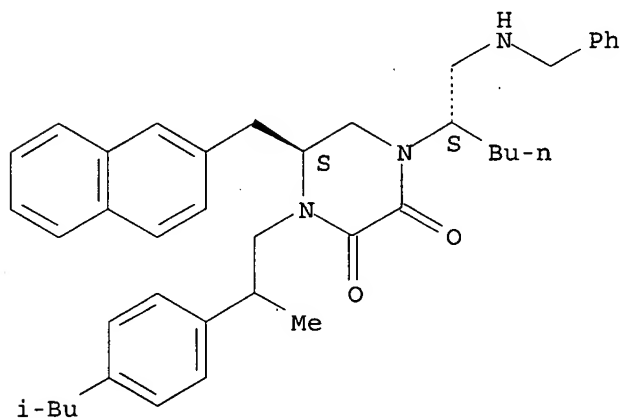
RN 537053-11-5 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



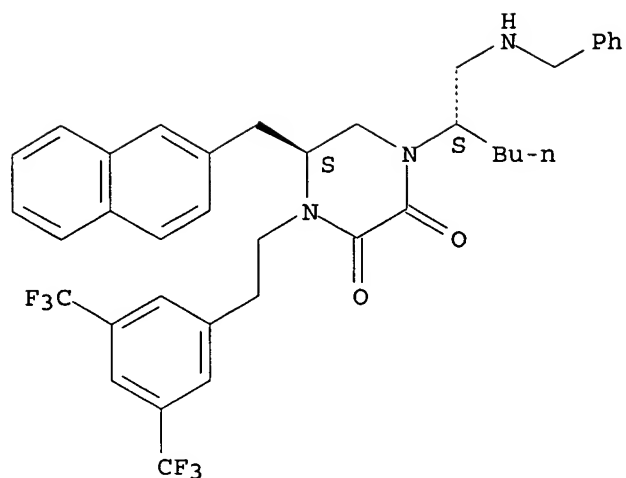
RN 537053-12-6 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 537053-13-7 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

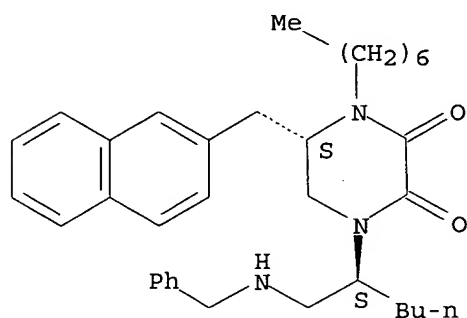
Absolute stereochemistry.



RN 537053-14-8 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

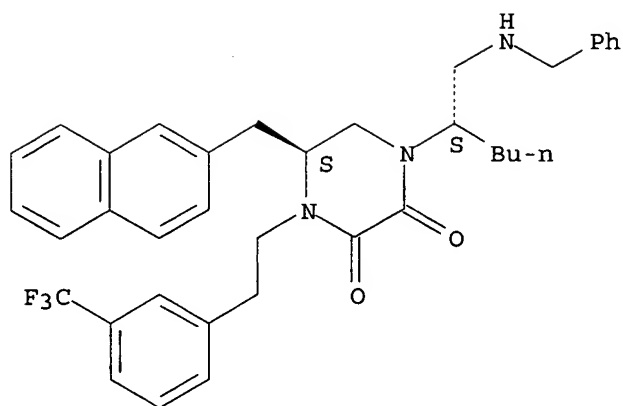
Absolute stereochemistry.



RN 537053-15-9 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-(trifluoromethyl)phenyl]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

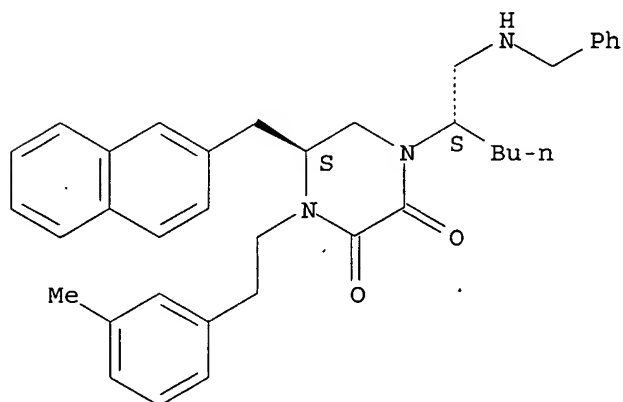
Absolute stereochemistry.



RN 537053-16-0 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

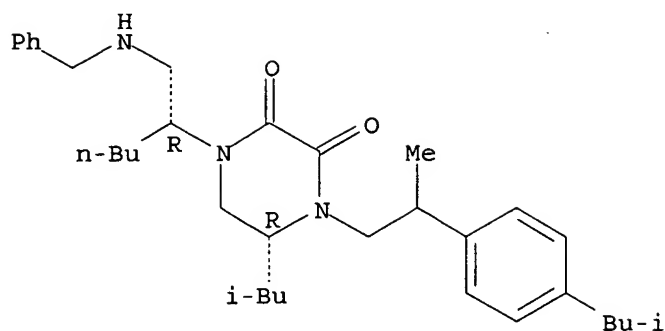
Absolute stereochemistry.



RN 537053-17-1 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)-(9CI) (CA INDEX NAME)

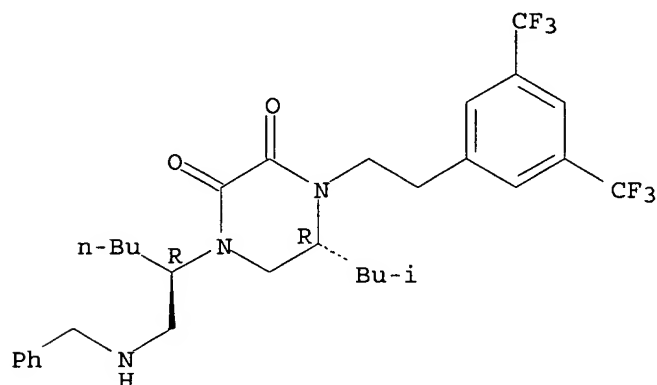
Absolute stereochemistry.



RN 537053-18-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

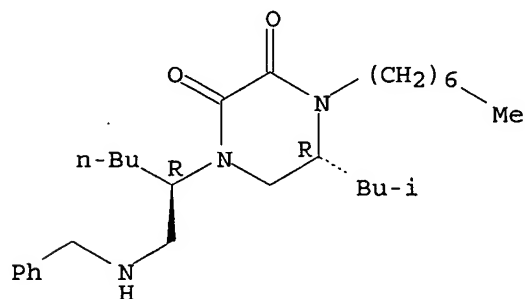
Absolute stereochemistry.



RN 537053-19-3 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

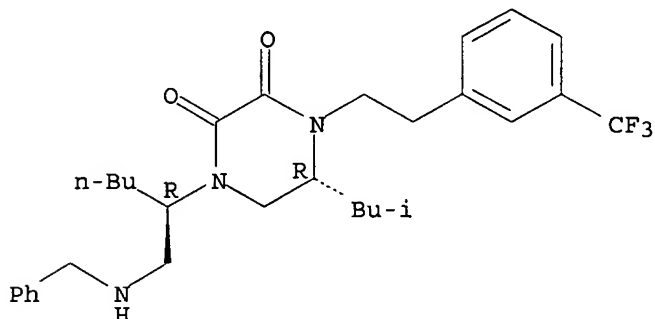


RN 537053-20-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-1-[(1R)-1-

[[(phenylmethyl) amino] methyl] pentyl] -4- [2- [3- (trifluoromethyl) phenyl] ethyl] -, (5R) - (9CI) (CA INDEX NAME)

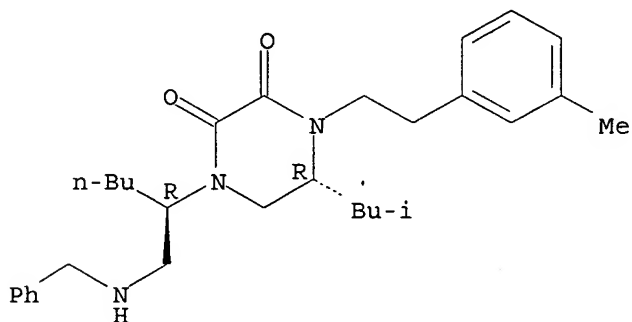
Absolute stereochemistry.



RN 537053-21-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-methylpropyl)-1-[(1R)-1-[[(phenylmethyl) amino] methyl] pentyl]-, (5R) - (9CI) (CA INDEX NAME)

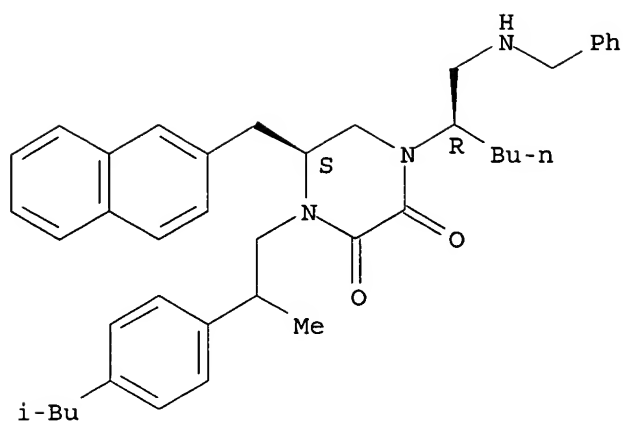
Absolute stereochemistry.



RN 537053-22-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[[(phenylmethyl) amino] methyl] pentyl]-, (5S) - (9CI) (CA INDEX NAME)

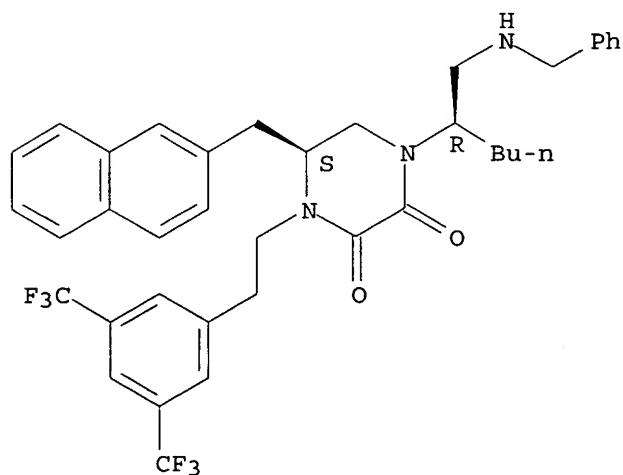
Absolute stereochemistry.



RN 537053-23-9 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

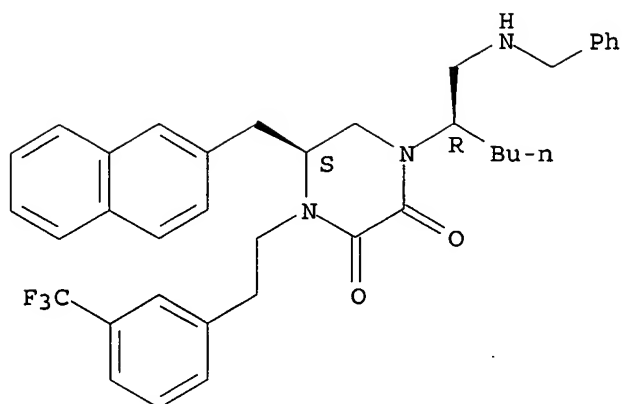
Absolute stereochemistry.



RN 537053-24-0 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-4-[2-[3-(trifluoromethyl)phenyl]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

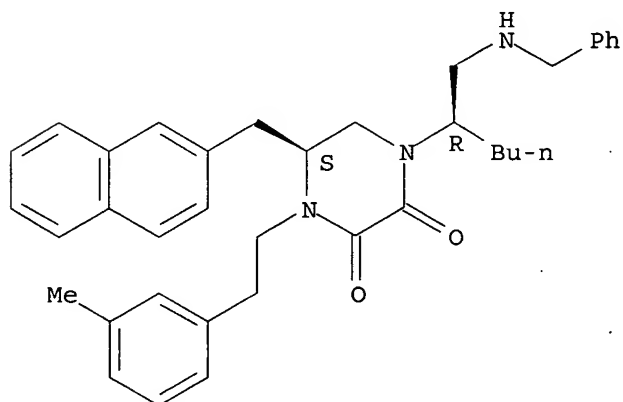
Absolute stereochemistry.



RN 537053-25-1 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-naphthalenylmethyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl-, (5S)-(9CI) (CA INDEX NAME)

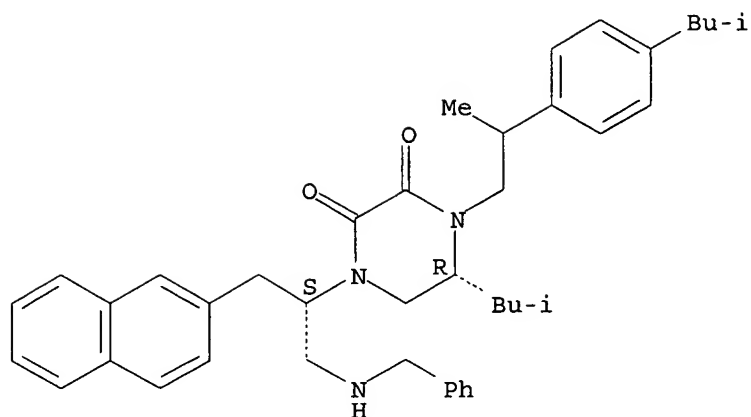
Absolute stereochemistry.



RN 537053-26-2 HCAPLUS

CN 2,3-Piperazinedione, 5-(2-methylpropyl)-4-[2-[4-(2-methylpropyl)phenyl]propyl]-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)-(9CI) (CA INDEX NAME)

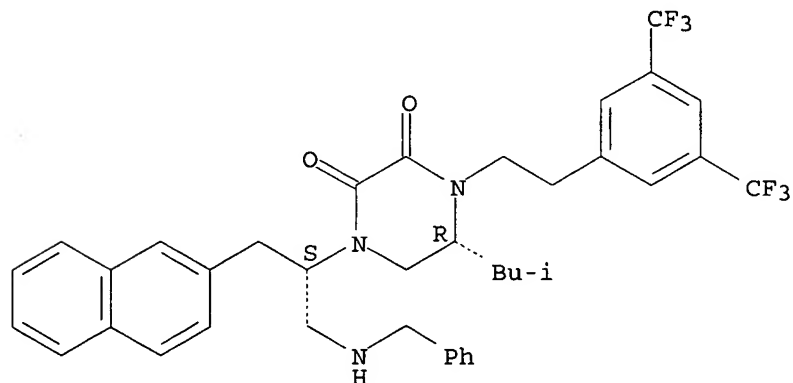
Absolute stereochemistry.



RN 537053-27-3 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

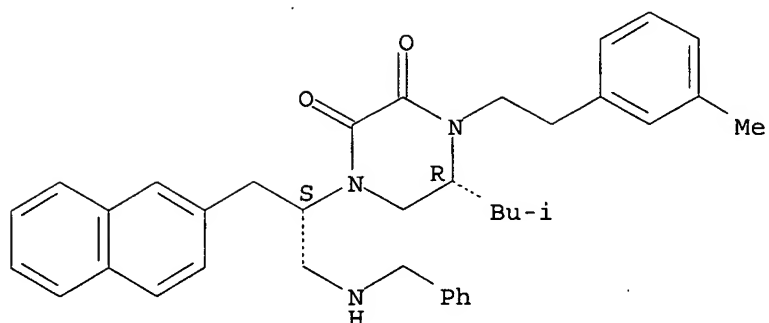
Absolute stereochemistry.



RN 537053-28-4 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

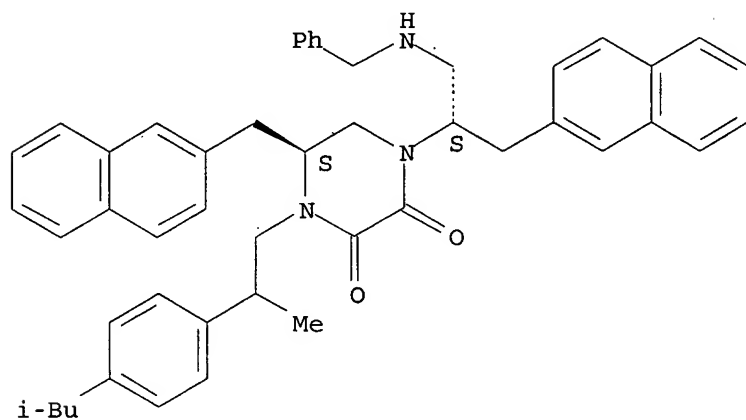
Absolute stereochemistry.



RN 537053-29-5 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[4-(2-methylpropyl)phenyl]propyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)-(9CI) (CA INDEX NAME)

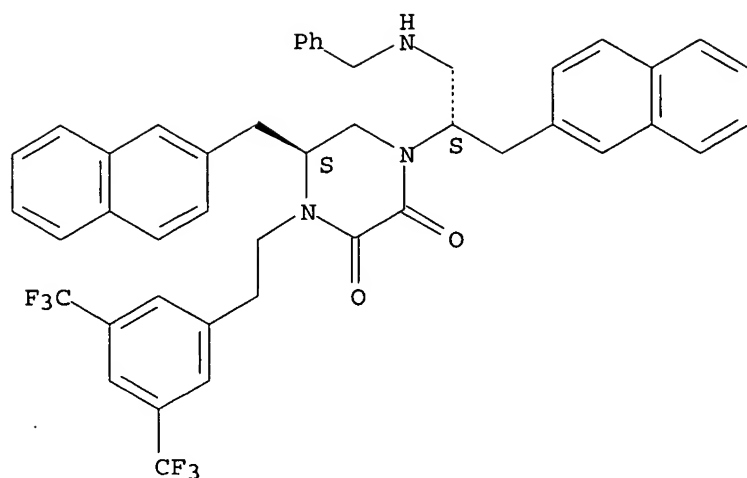
Absolute stereochemistry.



RN 537053-30-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-[3,5-bis(trifluoromethyl)phenyl]ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)-(9CI) (CA INDEX NAME)

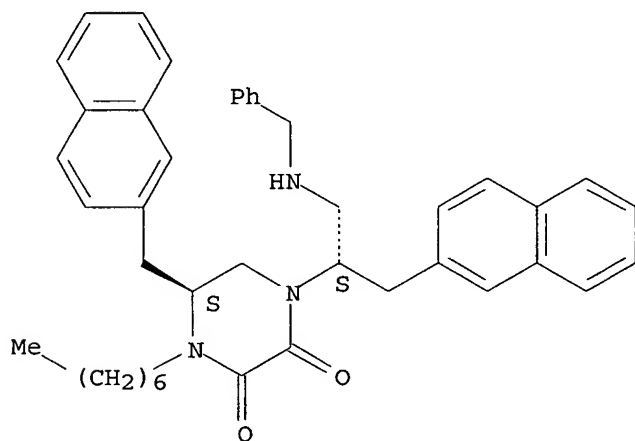
Absolute stereochemistry.



RN 537053-31-9 HCAPLUS

CN 2,3-Piperazinedione, 4-heptyl-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI)
(CA INDEX NAME)

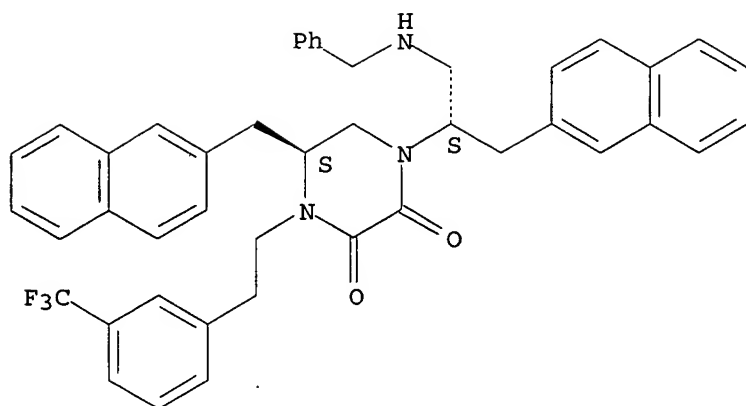
Absolute stereochemistry.



RN 537053-32-0 HCAPLUS

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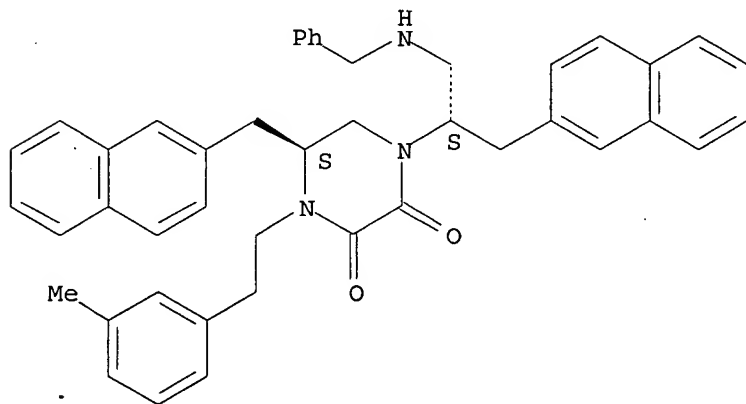
Absolute stereochemistry.



RN 537053-33-1 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methylphenyl)ethyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)-(9CI) (CA INDEX NAME)

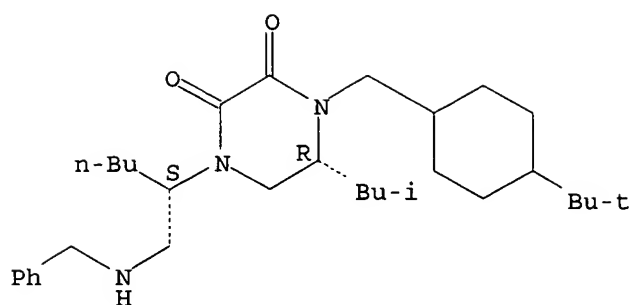
Absolute stereochemistry.



RN 540529-39-3 HCAPLUS

CN 2,3-Piperazinedione, 4-[4-(1,1-dimethylethyl)cyclohexylmethyl]-5-(2-methylpropyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)-(9CI) (CA INDEX NAME)

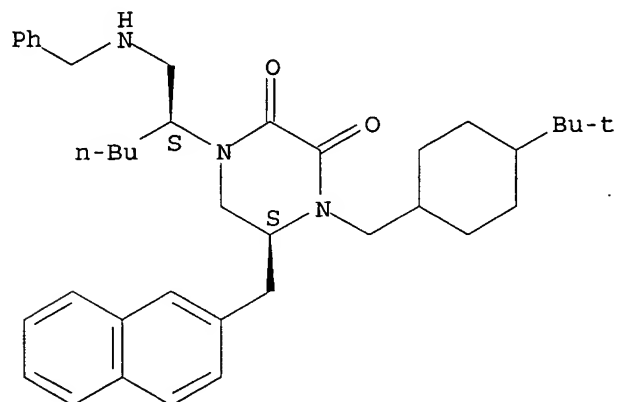
Absolute stereochemistry:



RN 540529-41-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

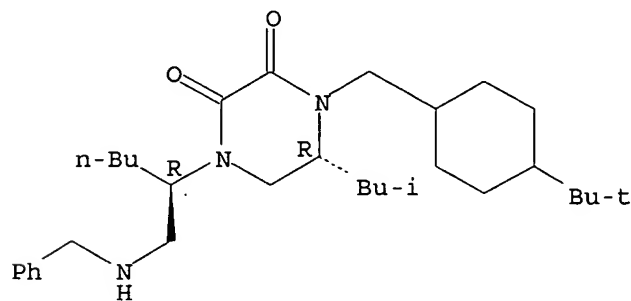
Absolute stereochemistry.



RN 540529-43-9 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-methylpropyl)-1-[(1R)-1-[(phenylmethyl)amino]methyl]pentyl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

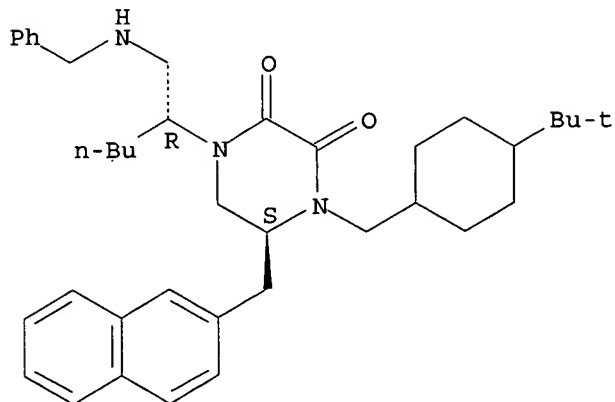


RN 540529-46-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-

(2-naphthalenylmethyl)-1-[(1R)-1-[[phenylmethyl]amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

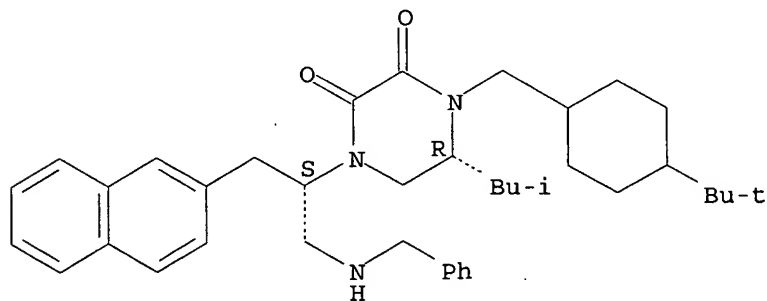
Absolute stereochemistry.



RN 540529-48-4 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-methylpropyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5R)- (9CI) (CA INDEX NAME)

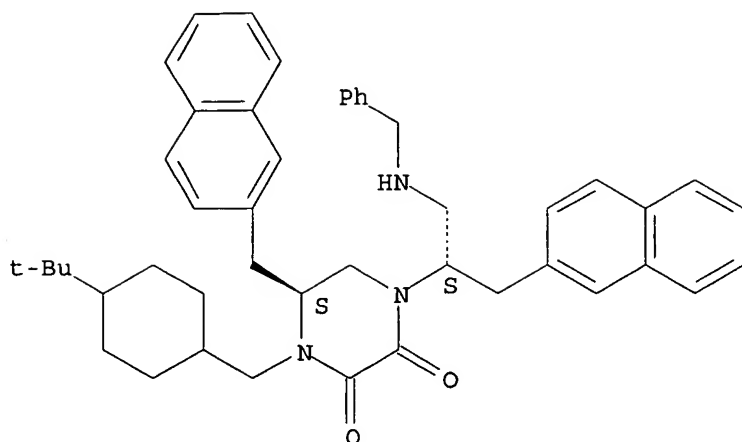
Absolute stereochemistry.



RN 540529-50-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[[4-(1,1-dimethylethyl)cyclohexyl]methyl]-5-(2-naphthalenylmethyl)-1-[(1S)-1-(2-naphthalenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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CC	1-6 (Pharmacology)			
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537053-86-4

(peptidyl and nonpeptidyl compds. for derepression of
IAP-inhibited caspase, therapeutic use, and methods for
identification of agents)

IT 540529-33-7 540529-35-9 540529-37-1 540529-39-3
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540529-54-2 540529-57-5 540529-59-7

(peptidyl and nonpeptidyl compds. for derepression of
IAP-inhibited caspase, therapeutic use, and methods for
identification of agents)

L10 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:655115 HCAPLUS

DOCUMENT NUMBER: 137:185839

TITLE: Preparation of diketodiazacyclic compounds,
diazacyclic compounds and combinatorial
libraries

INVENTOR(S): Nefzi, Adel; Ostresh, John M.; Houghten,
Richard A.

PATENT ASSIGNEE(S): Torrey Pines Institute for Molecular Studies,
USA

SOURCE: U.S., 43 pp., Cont.-in-part of U.S. 5,786,448.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6441172	B1	20020827	US 1999-310662	1999 0512
US 5786448	A	19980728	US 1996-745793	1996

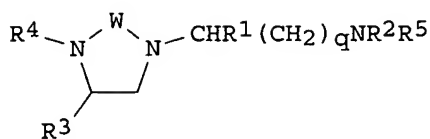
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All
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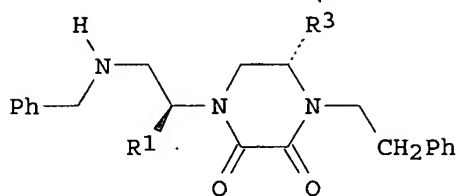
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Diff. Cl'd Comp's
→ No
Diff.
Cl'd
Comp's

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WO 2000069830	A1	20001123	WO 2000-US10841	2000
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EP 1181279	A1	20020227	EP 2000-926259	2000
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AU 774270	B2	20040624	AU 2000-44818	2000
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US 2003120066	A1	20030626	US 2002-164688	2002
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US 2005112693	A1	20050526	US 2004-972742	2004
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PRIORITY APPLN. INFO.:			US 1996-745793	A2
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			WO 2000-US10841	W
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				2002
				0606

GI



I



II

AB 1,4-Diazacyclic compds. I [$q = 1-7$; W is an (un)saturated chain of 2-4 carbon atoms which may be substituted by one or two oxo groups and other substituents and two of the remaining carbon atoms of the chain form an (un)saturated mono- or bicyclic ring containing 5- to 8-members in each ring and zero to three heteroatoms in each ring that are independently oxygen, nitrogen or sulfur; $R_1, R_3 = H$, (un)substituted alkyl, phenylalkyl, Ph, cycloalkyl; $R_2 = \text{alkyl}$, alkenyl, (un)substituted benzyl or naphthyl; $R_4 = H$, (un)substituted alkyl or phenylalkenyl, alkenyl, substituted cycloalkyl, phenylalkyl; $R_5 = H$, acyl, aroyl, alkyl- or arylaminocarbonyl or -thiocarbonyl] and libraries of these compds. were prepared. Thus, diketopiperazines II [$R_1 = \text{monosubstituted benzyl, s-Bu, CH}_2\text{OH, Me, (CH}_2\text{)}_4\text{NMeCH}_2\text{Ph}$; $R_3 = \text{PhCH}_2, \text{CHMe}_2$] were prepared by forming resin-bound N-acylated dipeptides, reduction of the amide groups, cyclization, and cleavage from the resin. Preparation of combinatorial libraries of N-benzyl- or N-methyl-1,4,5-trisubstituted-2,3-diketopiperazines and N-methyl-5,7-diketo-1,4-diazacycloheptanes are also described. The N-benzyl-1,4,5-trisubstituted-2,3-diketopiperazine library compds. were screened for orphanin binding and binding inhibition of the rat brain mu receptor.

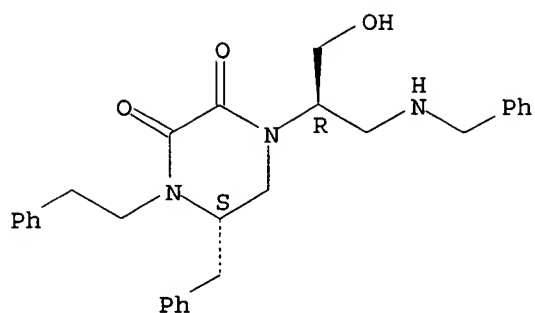
IT 287495-20-9P 287495-21-0P 287495-22-1P
287495-24-3P 287495-25-4P 287495-39-0P
308133-16-6P 308133-18-8P 308133-20-2P
308133-24-6P

(solid-phase synthesis of diketodiazacyclic compds.,
diazacyclic compds. and combinatorial libraries)

RN 287495-20-9 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-
[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-,
(5S)- (9CI) (CA INDEX NAME)

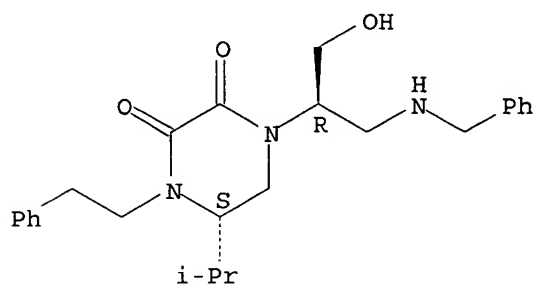
Absolute stereochemistry.



RN 287495-21-0 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-[(phenylmethyl)amino]ethyl]-5-(1-methylethyl)-4-(2-phenylethyl)-, (5S)-(9CI) (CA INDEX NAME)

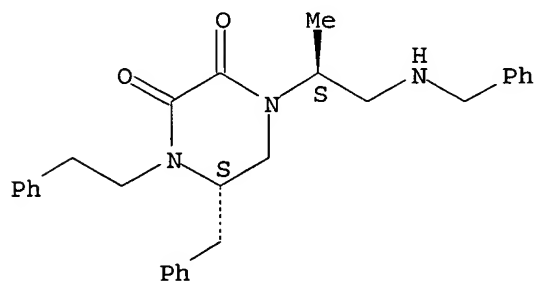
Absolute stereochemistry.



RN 287495-22-1 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-1-methyl-2-[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)-(9CI) (CA INDEX NAME)

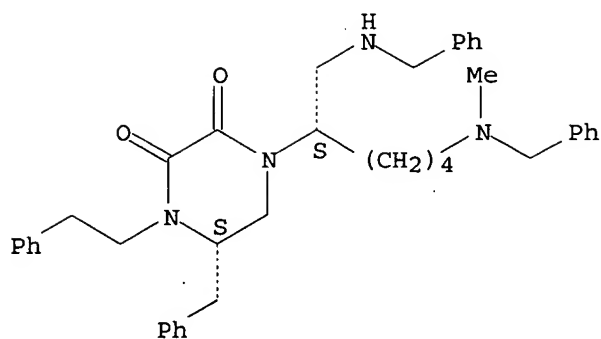
Absolute stereochemistry.



RN 287495-24-3 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)-(9CI) (CA INDEX NAME)

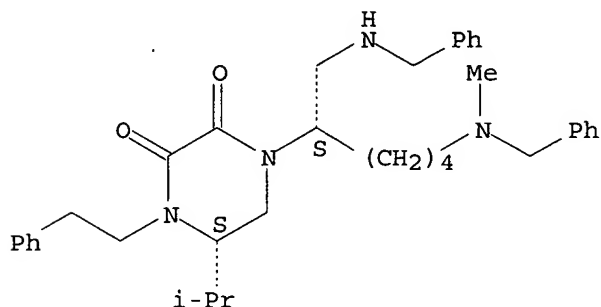
Absolute stereochemistry.



RN 287495-25-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-, (5S)- (9CI) (CA INDEX NAME)

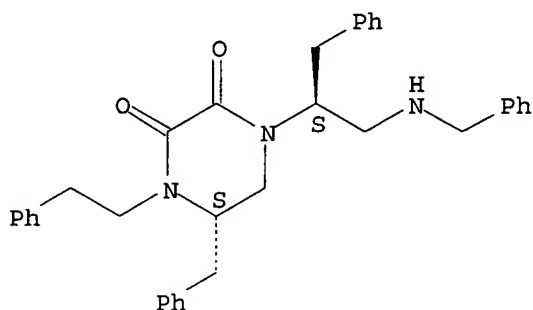
Absolute stereochemistry.



RN 287495-39-0 HCAPLUS

CN 2,3-Piperazinedione, 4-(2-phenylethyl)-5-(phenylmethyl)-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

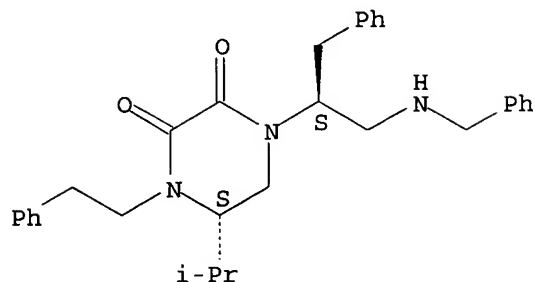
Absolute stereochemistry.



RN 308133-16-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-4-(2-phenylethyl)-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

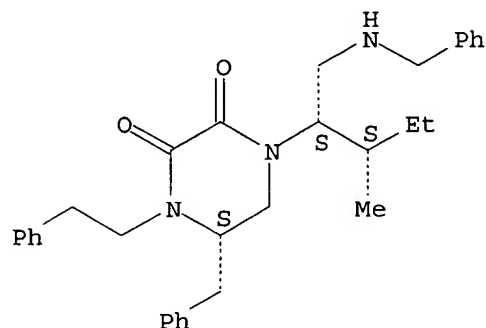
Absolute stereochemistry.



RN 308133-18-8 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S,2S)-2-methyl-1-
[[[(phenylmethyl)amino]methyl]butyl]-4-(2-phenylethyl)-5-
(phenylmethyl)-, (5S)- (9CI) (CA INDEX NAME)

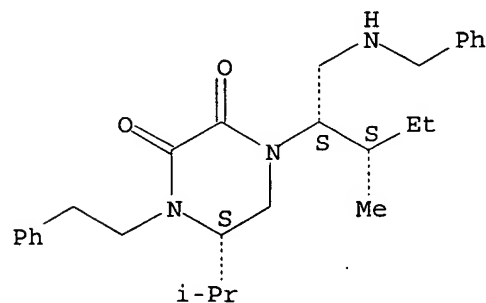
Absolute stereochemistry.



RN 308133-20-2 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S,2S)-2-methyl-1-
[[[(phenylmethyl)amino]methyl]butyl]-4-(2-phenylethyl)-, (5S)-
(9CI) (CA INDEX NAME)

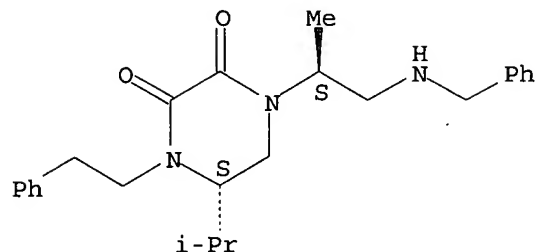
Absolute stereochemistry.



RN 308133-24-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S)-1-methyl-2-
[[[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-, (5S)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



IC ICM C07D241-04

INCL 544383000

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1, 2, 28

IT 71754-91-1P 256663-69-1P 256663-70-4P 256663-71-5P
 256663-72-6P 256663-73-7P 256663-77-1P 256663-78-2P
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 308133-16-6P 308133-18-8P 308133-20-2P
 308133-24-6P

(solid-phase synthesis of diketodiazacyclic compds.,
 diazacyclic compds. and combinatorial libraries)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L10 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:46830 HCAPLUS

DOCUMENT NUMBER: 137:185430

TITLE: Solid phase synthesis of acyclic and
 heterocyclic combinatorial libraries from
 resin-bound triamines

AUTHOR(S): Nefzi, Adel; Giulianotti, Marc A.; Ong, Nhi
 A.; Ostresh, John M.; Dooley, Colette T.;
 Blondelle, Sylvie E.; Houghten, Richard A.

CORPORATE SOURCE: Torrey Pines Institute for Molecular Studies,
 San Diego, CA, 92121, USA

SOURCE: Innovation and Perspectives in Solid Phase
 Synthesis & Combinatorial Libraries: Peptides,
 Proteins and Nucleic Acids--Small Molecule
 Organic Chemistry Diversity, Collected Papers,
 International Symposium, 6th, York, United
 Kingdom, Aug. 31-Sept. 4, 1999 (2001), Meeting
 Date 1999, 119-122. Editor(s): Epton, Roger.
 Mayflower Scientific Ltd.: Kingswinford, UK.
 CODEN: 69CEGV; ISBN: 0-9515735-3-5

DOCUMENT TYPE: Conference

LANGUAGE: English

AB A symposium report. Acyclic and heterocyclic synthetic
 combinatorial libraries (SCLs) were prepared from peptide SCLs using
 the "libraries from libraries" approach. A bicyclic guanidine
 library was screened in a radioreceptor assay selective for the
 κ opiate receptor. A number of compds. showed binding
 affinities < 200 nM.

3 of APP's
 NO Diff Comp.

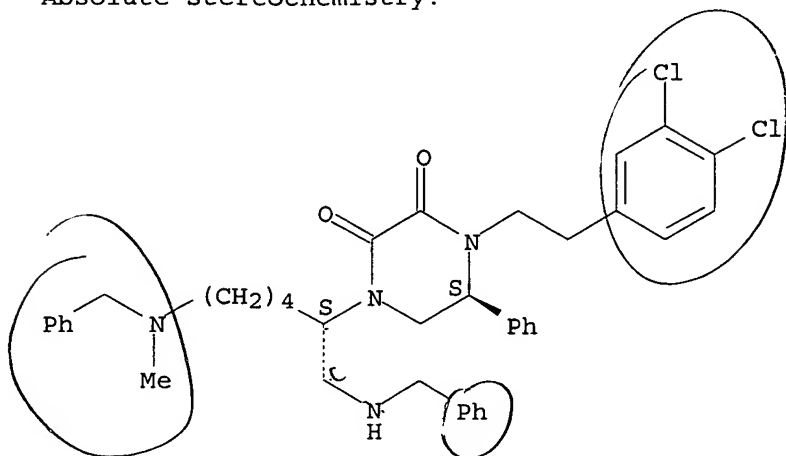
IT 449778-38-5P

(solid phase synthesis of acyclic and heterocyclic
combinatorial libraries from resin-bound triamines)

RN 449778-38-5 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3,4-dichlorophenyl)ethyl]-1-[(1S)-5-
[methyl(phenylmethyl)amino]-1-[[(phenylmethyl)amino]methyl]pentyl]-
5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 28-1 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 25, 34

IT 449778-38-5P 449778-39-6P

(solid phase synthesis of acyclic and heterocyclic
combinatorial libraries from resin-bound triamines)REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L10 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:824229 HCAPLUS

DOCUMENT NUMBER: 134:5160

TITLE: Preparation of diketodiazacyclic compounds,
diazacyclic compounds and combinatorial
librariesINVENTOR(S): Nefzi, Adel; Ostresh, John M.; Houghten,
Richard A.PATENT ASSIGNEE(S): Torrey Pines Institute for Molecular Studies,
USA

SOURCE: PCT Int. Appl., 165 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000069830	A1	20001123	WO 2000-US10841	2000 0421

W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE,
GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR,

USHA SHRESTHA EIC 1600 REM 1A64

DIF

3 of APP¹²

Use Patent if needed

102(a)
Cite as
corresponding USDon't need
before
102(a)

LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SD, SG, SI,
 SK, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD,
 RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
 SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,
 TD, TG

US 6441172 B1 20020827 US 1999-310662 1999
 0512

CA 2373590 AA 20001123 CA 2000-2373590 2000
 0421

EP 1181279 A1 20020227 EP 2000-926259 2000
 0421

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, SI, LT, LV, FI, RO

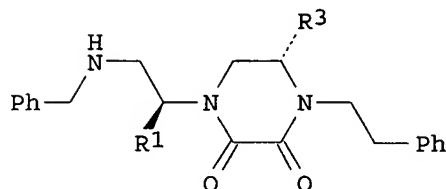
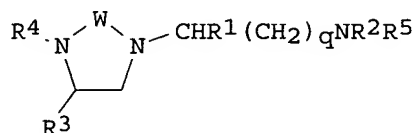
AU 774270 B2 20040624 AU 2000-44818 2000
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PRIORITY APPLN. INFO.: US 1999-310662 A 1999
 0512

US 1996-745793 A2 1996
 1107

WO 2000-US10841 W 2000
 0421

OTHER SOURCE(S): MARPAT 134:5160
 GI



AB 1,4-Diazacyclic compds. I [q = 1-7; W is an (un)saturated chain of 2-4 carbon atoms which may be substituted by one or two oxo groups and other substituents and two of the remaining carbon atoms of the chain form an (un)saturated mono- or bicyclic ring containing 5- to 8-members in each ring and zero to three heteroatoms in each ring that are independently oxygen, nitrogen or sulfur; R1, R3 = H,

(un)substituted alkyl, phenylalkyl, Ph, cycloalkyl; R2 = alkyl, alkenyl, (un)substituted benzyl or naphthyl; R4 = H, (un)substituted alkyl or phenylalkenyl, alkenyl, substituted cycloalkyl, phenylalkyl; R5 = H, acyl, aroyl, alkyl- or arylaminocarbonyl or -thiocarbonyl] and libraries of these compds. were prepared. Thus, diketopiperazines II [R1 = monosubstituted benzyl, s-Bu, CH2OH, Me, (CH2)4NMeCH2Ph; R3 = PhCH2, CHMe2] were prepared by forming resin-bound N-acylated dipeptides, reduction of the amide groups, cyclization, and cleavage from the resin.

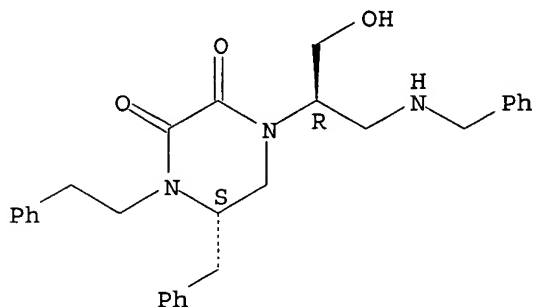
IT 287495-20-9P 287495-21-0P 287495-22-1P
287495-24-3P 287495-25-4P 287495-39-0P
308133-16-6P 308133-18-8P 308133-20-2P
308133-24-6P

(solid-phase synthesis of diketodiazacyclic compds.,
diazacyclic compds. and combinatorial libraries)

RN 287495-20-9 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-
[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-,
(5S)- (9CI) (CA INDEX NAME)

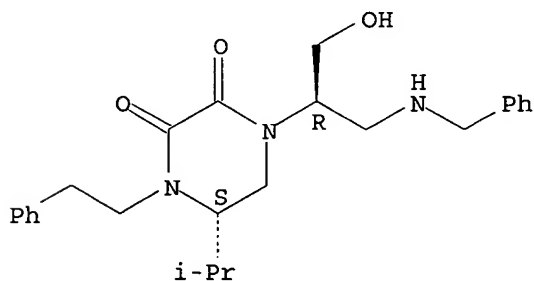
Absolute stereochemistry.



RN 287495-21-0 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-
[(phenylmethyl)amino]ethyl]-5-(1-methylethyl)-4-(2-phenylethyl)-,
(5S)- (9CI) (CA INDEX NAME)

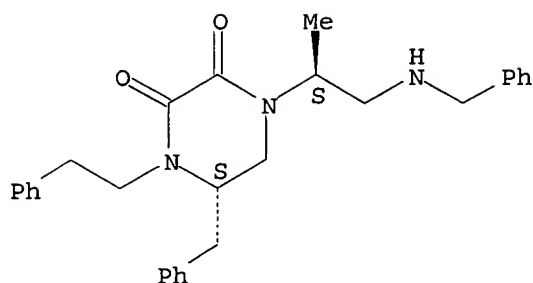
Absolute stereochemistry.



RN 287495-22-1 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-1-methyl-2-
[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-,
(5S)- (9CI) (CA INDEX NAME)

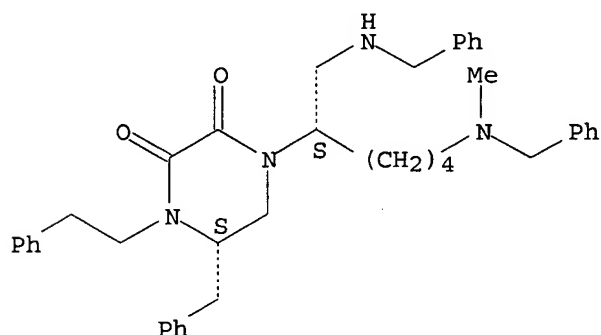
Absolute stereochemistry.



RN 287495-24-3 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)- (9CI) (CA INDEX NAME)

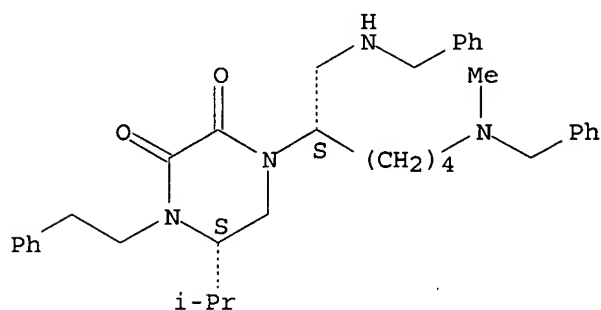
Absolute stereochemistry.



RN 287495-25-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-, (5S)- (9CI) (CA INDEX NAME)

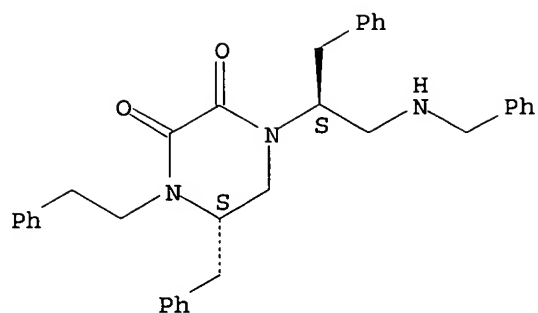
Absolute stereochemistry.



RN 287495-39-0 HCAPLUS

CN 2,3-Piperazinedione, 4-(2-phenylethyl)-5-(phenylmethyl)-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

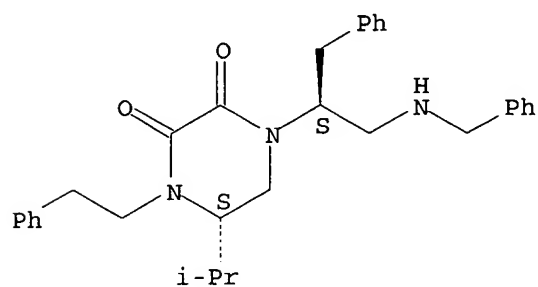
Absolute stereochemistry.



RN 308133-16-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-4-(2-phenylethyl)-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

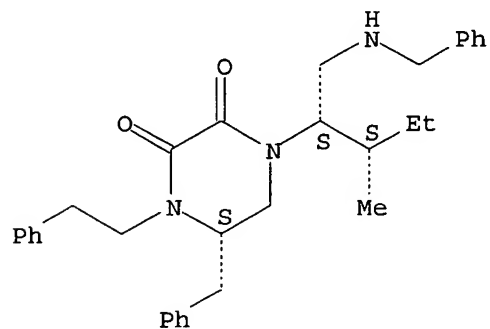
Absolute stereochemistry.



RN 308133-18-8 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S,2S)-2-methyl-1-[[[(phenylmethyl)amino]methyl]butyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)- (9CI) (CA INDEX NAME)

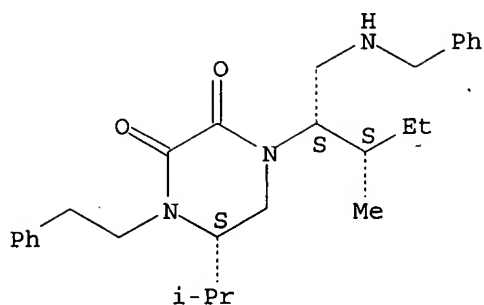
Absolute stereochemistry.



RN 308133-20-2 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S,2S)-2-methyl-1-[[[(phenylmethyl)amino]methyl]butyl]-4-(2-phenylethyl)-, (5S)- (9CI) (CA INDEX NAME)

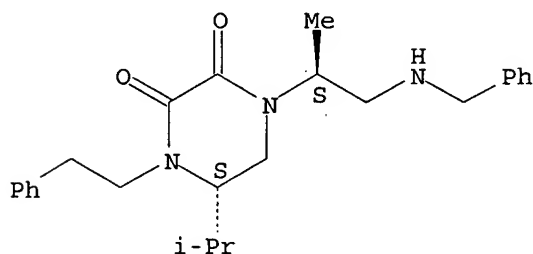
Absolute stereochemistry.



RN 308133-24-6 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S)-1-methyl-2-
[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-, (5S)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



IC ICM C07D223-00

ICS C07D225-00; C07D241-04; C07D245-00; C07D267-02; G01N033-536;
G01N033-543

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1, 28

IT 71754-91-1P 256663-69-1P 256663-70-4P 256663-71-5P
256663-72-6P 256663-73-7P 256663-77-1P 256663-78-2P
256663-79-3P 287495-08-3P 287495-09-4P 287495-11-8P
287495-12-9P 287495-13-0P 287495-15-2P 287495-20-9P
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287495-25-4P 287495-39-0P 308132-92-5P
308132-97-0P 308133-02-0P 308133-07-5P 308133-12-2P
308133-16-6P 308133-18-8P 308133-20-2P
308133-24-6P

(solid-phase synthesis of diketodiazacyclic compds.,
diazacyclic compds. and combinatorial libraries)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L10 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:373661 HCAPLUS

DOCUMENT NUMBER: 133:150895

TITLE: Solid-phase synthesis of substituted
2,3-diketopiperazines from reduced polyamides
AUTHOR(S): Nefzi, Adel; Giulianotti, Marc A.; Houghten,
Richard A.

CORPORATE SOURCE: Torrey Pines Institute for Molecular Studies,

#14650

102(b)

2 of

App's

SOURCE: San Diego, CA, 92121, USA
 Tetrahedron (2000), 56(21), 3319-3326
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:150895

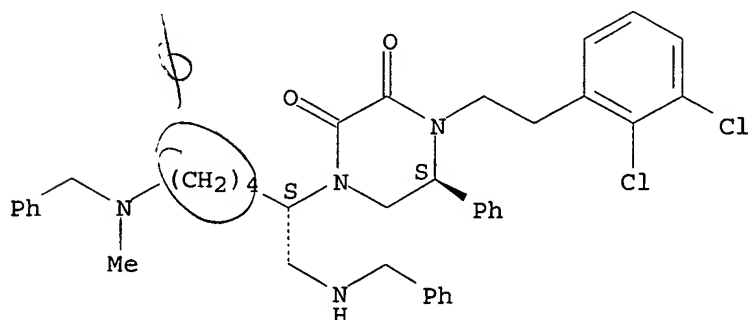
AB An efficient method for the solid phase synthesis of 1,6-disubstituted 2,3-diketopiperazine and 1,4,5-trisubstituted 2,3-diketopiperazine derivs. is described. The reduction of resin-bound acylated amino acids or resin-bound acylated dipeptides, followed by treatment with oxalyldiimidazole, affords the corresponding diketopiperazines in good yield and high purity. This is an example of a broader approach to the solid phase synthesis of individual heterocyclic compds. using peptides directly or indirectly as starting materials.

IT 287495-16-3P 287495-17-4P 287495-18-5P
 287495-19-6P 287495-20-9P 287495-21-0P
 287495-22-1P 287495-23-2P 287495-24-3P
 287495-25-4P 287495-26-5P 287495-27-6P
 287495-28-7P 287495-30-1P 287495-31-2P
 287495-32-3P 287495-33-4P 287495-34-5P
 287495-35-6P 287495-36-7P 287495-37-8P
 287495-38-9P 287495-39-0P
 (solid-phase synthesis of substituted 2,3-diketopiperazines from reduced polyamides)

RN 287495-16-3 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(2,3-dichlorophenyl)ethyl]-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[(phenylmethyl)amino]methyl]pentyl]-5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

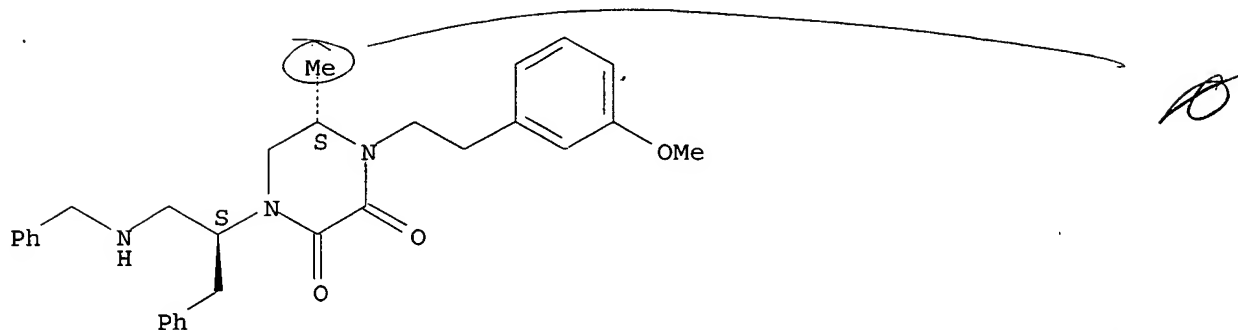
Absolute stereochemistry.



RN 287495-17-4 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(3-methoxyphenyl)ethyl]-5-methyl-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

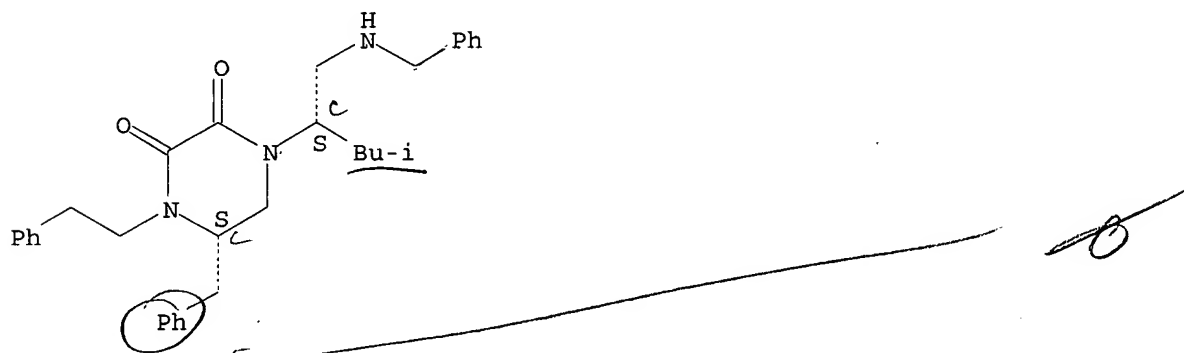
Absolute stereochemistry.



RN 287495-18-5 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-3-methyl-1-
[[[(phenylmethyl)amino]methyl]butyl]-4-(2-phenylethyl)-5-
(phenylmethyl)-, (5S)- (9CI) (CA INDEX NAME)

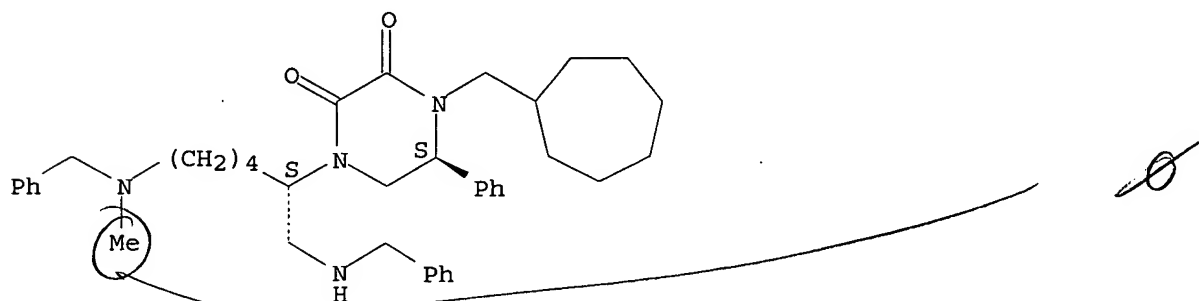
Absolute stereochemistry.



RN 287495-19-6 HCAPLUS

CN 2,3-Piperazinedione, 4-(cycloheptylmethyl)-1-[(1S)-5-
[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-
5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

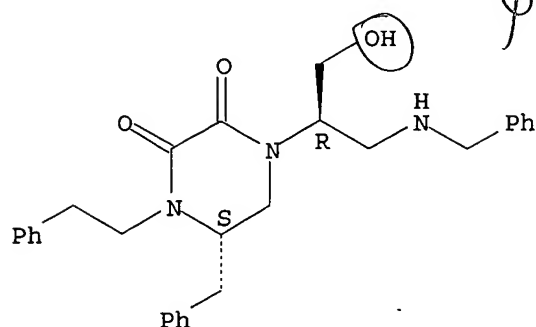
Absolute stereochemistry.



RN 287495-20-9 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-
[[[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-,
(5S)- (9CI) (CA INDEX NAME)

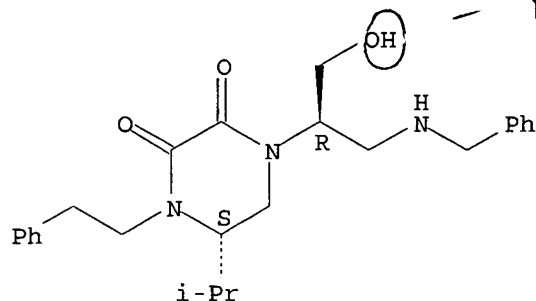
Absolute stereochemistry.



RN 287495-21-0 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1R)-1-(hydroxymethyl)-2-[(phenylmethyl)amino]ethyl]-5-(1-methylethyl)-4-(2-phenylethyl)-, (5S)-(9CI) (CA INDEX NAME)

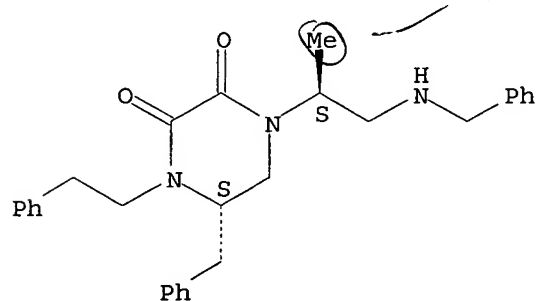
Absolute stereochemistry.



RN 287495-22-1 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-1-methyl-2-[(phenylmethyl)amino]ethyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)-(9CI) (CA INDEX NAME)

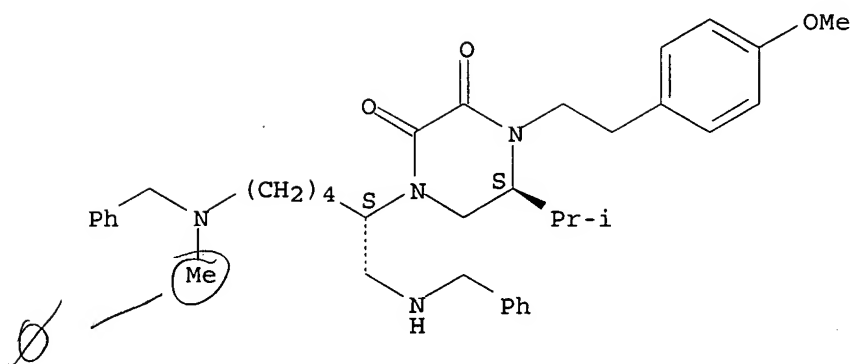
Absolute stereochemistry.



RN 287495-23-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(4-methoxyphenyl)ethyl]-5-(1-methylethyl)-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI) (CA INDEX NAME)

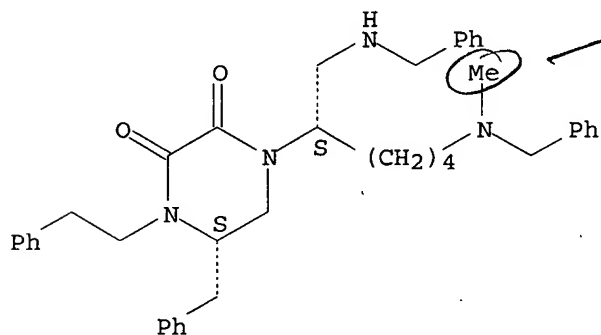
Absolute stereochemistry.



RN 287495-24-3 HCAPLUS

CN 2,3-Piperazinedione, 1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-5-(phenylmethyl)-, (5S)-(9CI)] (CA INDEX NAME)

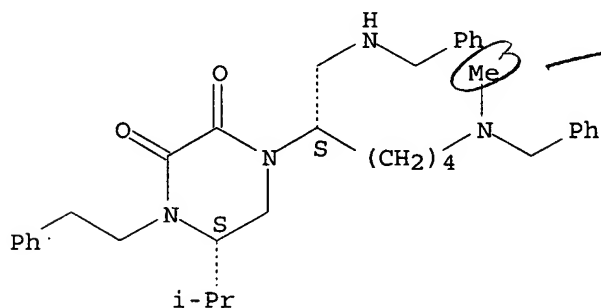
Absolute stereochemistry.



RN 287495-25-4 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-4-(2-phenylethyl)-, (5S)-(9CI)] (CA INDEX NAME)

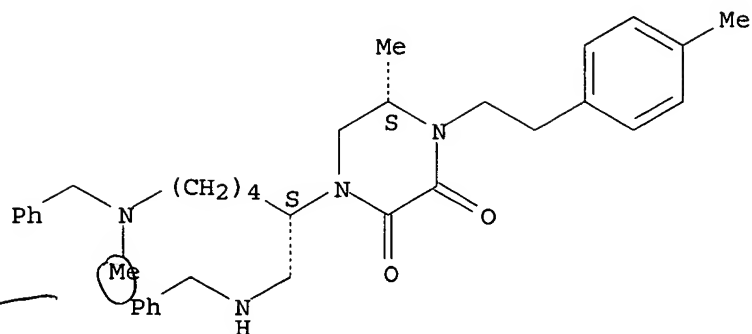
Absolute stereochemistry.



RN 287495-26-5 HCAPLUS

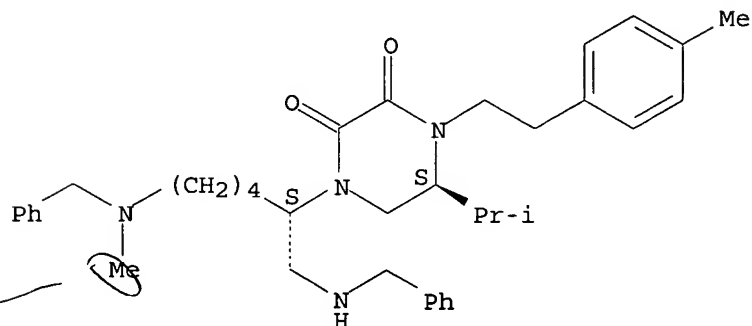
CN 2,3-Piperazinedione, 5-methyl-4-[2-(4-methylphenyl)ethyl]-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-, (5S)-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.



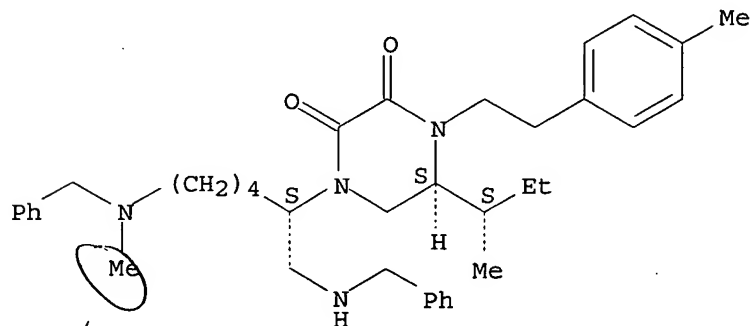
RN 287495-27-6 HCAPLUS
 CN 2,3-Piperazinedione, 5-(1-methylethyl)-4-[2-(4-methylphenyl)ethyl]-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 287495-28-7 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-(4-methylphenyl)ethyl]-1-[(1S)-5-[methyl(phenylmethyl)amino]-1-[(phenylmethyl)amino]methyl]pentyl]-5-[(1S)-1-methylpropyl]-, (5S)- (9CI) (CA INDEX NAME)

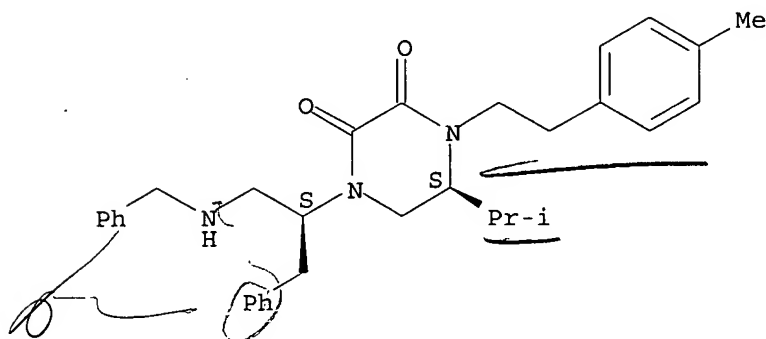
Absolute stereochemistry.



RN 287495-30-1 HCAPLUS

CN 2,3-Piperazinedione, 5-(1-methylethyl)-4-[2-(4-methylphenyl)ethyl]-
1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)-
(9CI) (CA INDEX NAME)

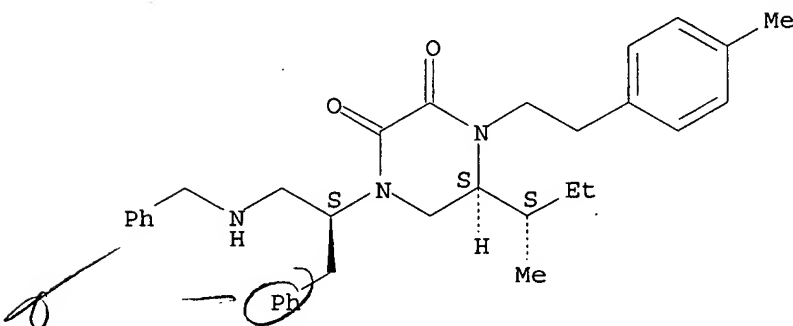
Absolute stereochemistry.



RN 287495-31-2 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(4-methylphenyl)ethyl]-5-[(1S)-1-
methylpropyl]-1-[(1S)-1-(phenylmethyl)-2-
[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

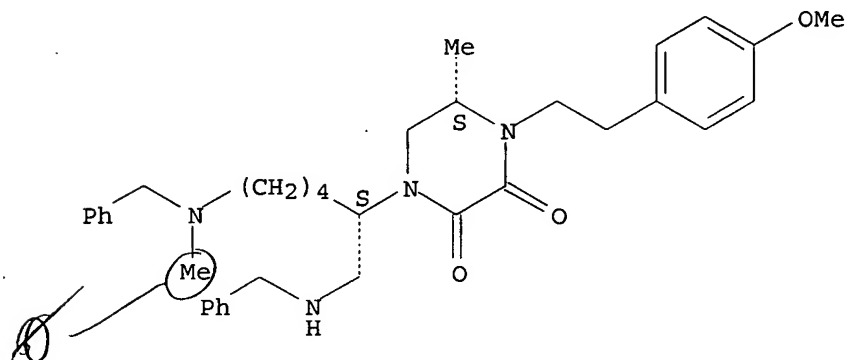
Absolute stereochemistry.



RN 287495-32-3 HCAPLUS

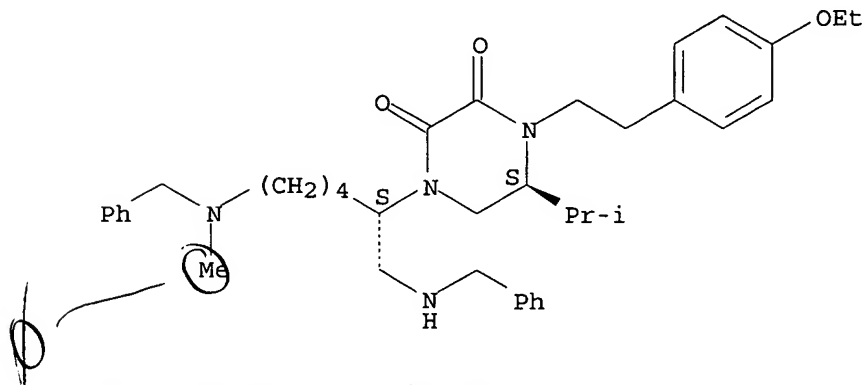
CN 2,3-Piperazinedione, 4-[2-(4-methoxyphenyl)ethyl]-5-methyl-1-[(1S)-
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l]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



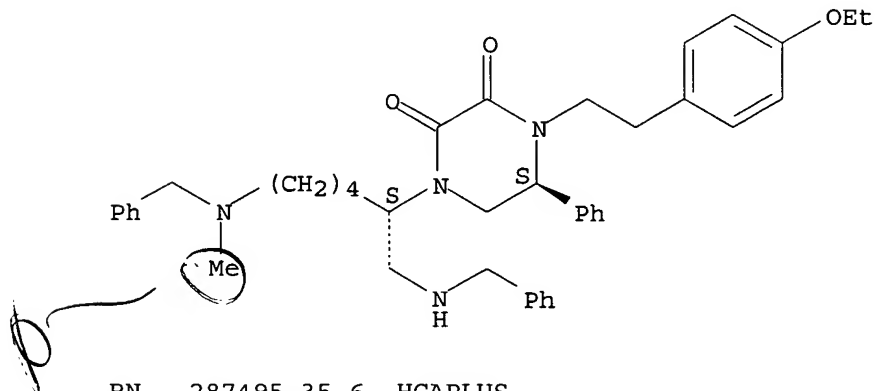
RN 287495-33-4 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-(4-ethoxyphenyl)ethyl]-5-(1-methylethyl)-
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 [[(phenylmethyl)amino]methyl]pentyl]-, (5S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



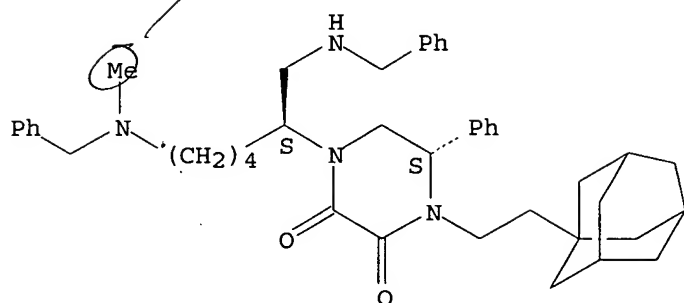
RN 287495-34-5 HCAPLUS
 CN 2,3-Piperazinedione, 4-[2-(4-ethoxyphenyl)ethyl]-1-[(1S)-5-
 [methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-
 5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 287495-35-6 HCAPLUS
 CN 2,3-Piperazinedione, 1-[(1S)-5-[methyl(phenylmethyl)amino]-1-
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 tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl)-, (5S)- (9CI) (CA INDEX NAME)

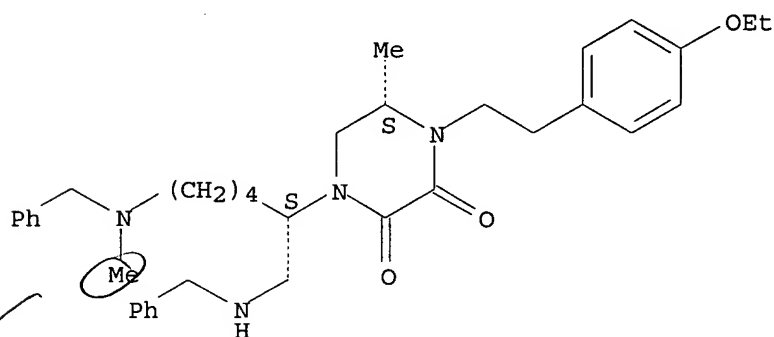
Absolute stereochemistry.



RN 287495-36-7 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(4-ethoxyphenyl)ethyl]-5-methyl-1-[(1S)-5-methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

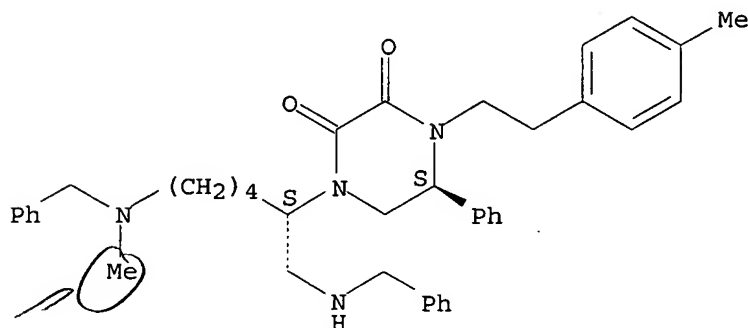
Absolute stereochemistry.



RN 287495-37-8 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(4-methylphenyl)ethyl]-1-[(1S)-5-methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

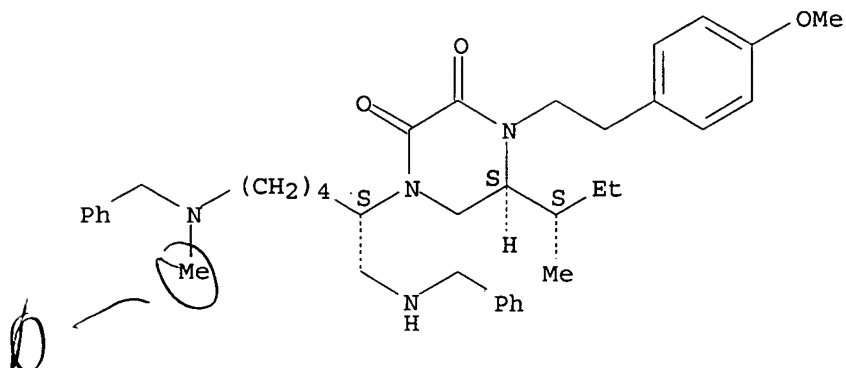
Absolute stereochemistry.



RN 287495-38-9 HCAPLUS

CN 2,3-Piperazinedione, 4-[2-(4-methoxyphenyl)ethyl]-1-[(1S)-5-methyl(phenylmethyl)amino]-1-[[[(phenylmethyl)amino]methyl]pentyl]-5-phenyl-, (5S)- (9CI) (CA INDEX NAME)

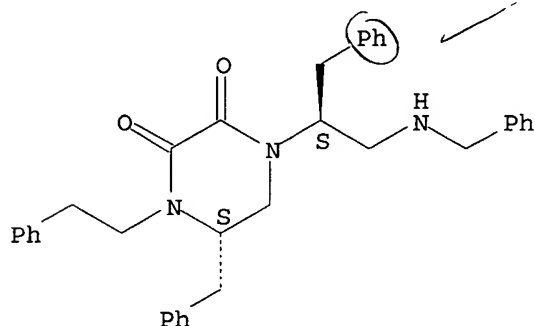
Absolute stereochemistry.



RN 287495-39-0 HCAPLUS

CN 2,3-Piperazinedione, 4-(2-phenylethyl)-5-(phenylmethyl)-1-[(1S)-1-(phenylmethyl)-2-[(phenylmethyl)amino]ethyl]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 28

IT 71754-91-1P 256663-69-1P 256663-70-4P 256663-71-5P
 256663-73-7P 256663-74-8P 256663-75-9P 256663-76-0P
 256663-77-1P 256663-78-2P 256663-79-3P 287495-08-3P
 287495-09-4P 287495-10-7P 287495-11-8P 287495-12-9P
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 287495-39-0P

(solid-phase synthesis of substituted 2,3-diketopiperazines from reduced polyamides)

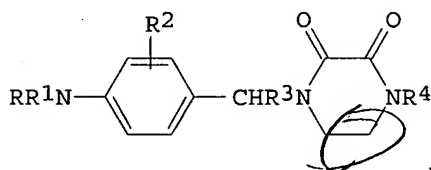
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:407331 HCAPLUS

DOCUMENT NUMBER: 95:7331
 TITLE: 1-(4-Aminobenzyl)-2,3-dioxopiperazine derivatives and their acid addition salts
 PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan
 SOURCE: Ger. Offen., 86 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3027106	A1	19810219	DE 1980-3027106	1980 0717
DE 3027106	C2	19881110		
JP 56018969	A2	19810223	JP 1979-93234	1979 0724
JP 05057272	B4	19930823		
CA 1131640	A1	19820914	CA 1980-356116	1980 0714
GB 2056976	A	19810325	GB 1980-23879	1980 0722
FR 2461705	A1	19810206	FR 1980-16275	1980 0723
FR 2461705	B1	19830318		
PRIORITY APPLN. INFO.:			JP 1979-93234	A 1979 0724

OTHER SOURCE(S): MARPAT 95:7331
 GI



AB Piperazinediones I (R, R1 = H, alkyl, cycloalkyl, aralkyl, acyl, thiocarbamoyl, alkylthioimidoyl, amidino, heterocyclic; NRR1 = heterocyclic; R2 = H, amino, alkyl, alkoxy; R3 = H, alkyl; R4 = H, aliphatic, aryl, heterocyclic) were prepared. Thus AcNHCH2CH2NH2 was reductively alkylated with 4-AcNHC6H4CHO to give 4-H2NC6H4CH2NHCH2CH2NH2 which was cyclized with di-Et oxalate to give I (R-R4 = H). The latter compound was treated with 2-bromopyrimidine to give I (R = 2-pyrimidinyl; R1-R4 = H) which was treated with PhCH2Cl to give I (R = 2-pyrimidinyl, R1-R3 = H, R4 = CH2Ph) (II). II had a min. inhibitory concentration against HeLa cells of 0.1 µg/mL.

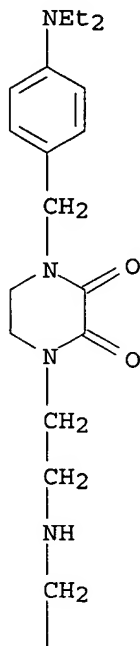
IT 77916-95-1P

(preparation and antitumor activity of)

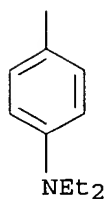
RN 77916-95-1 HCAPLUS

CN 2,3-Piperazinedione, 1-[[4-(diethylamino)phenyl]methyl]-4-[2-[[[4-(diethylamino)phenyl]methyl]amino]ethyl]-, trihydrochloride (9CI)
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



●3 HCl

IC C07D241-08; A61K031-495; C07D401-00; C07D403-00

CC 28-18 (Heterocyclic Compounds (More Than One Hetero Atom))

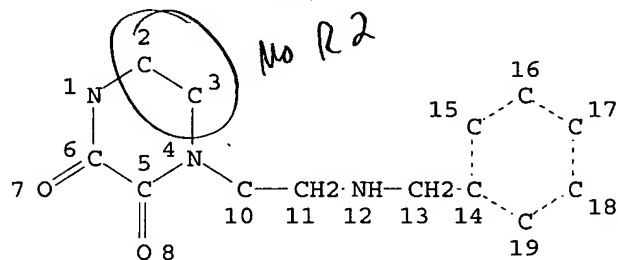
IT	77916-95-1P	77916-97-3P	77916-98-4P	77916-99-5P
	77917-01-2P	77917-02-3P	77917-05-6P	77917-10-3P
	77917-21-6P	77917-23-8P	77917-27-2P	77917-29-4P
	77917-32-9P	77917-33-0P	77917-35-2P	77917-36-3P
	77917-40-9P	77917-42-1P	77917-43-2P	77917-46-5P
	77917-52-3P	77917-53-4P	77917-55-6P	77917-56-7P
	77917-59-0P	77917-60-3P	77917-62-5P	77917-65-8P

77917-76-1P 77917-78-3P 77917-82-9P 77917-86-3P
 77917-88-5P 77917-94-3P 77917-95-4P 77917-96-5P
 77917-97-6P 77918-00-4P 77918-01-5P 77918-02-6P
 77918-04-8P 77918-05-9P 77939-48-1P
 (preparation and antitumor activity of)

=> fil marpat
 FILE 'MARPAT' ENTERED AT 14:27:11 ON 22 SEP 2006

=> d que l13
 L7

STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
 L9 66 SEA FILE=REGISTRY SSS FUL L7
 L10 7 SEA FILE=HCAPLUS ABB=ON L9
 L12 4 SEA FILE=MARPAT SSS FUL L7
 L13 2 SEA FILE=MARPAT ABB=ON L12 NOT L10

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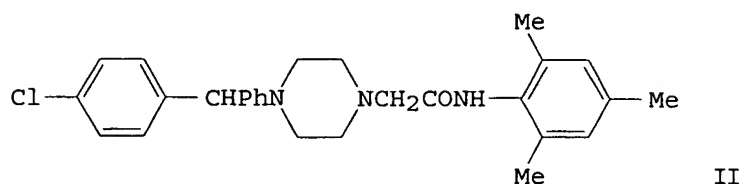
L13 ANSWER 1 OF 2 MARPAT COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 110:57692 MARPAT
 TITLE: Preparation of N-benzhydrylpiperazines and
 analogs as vasodilators
 INVENTOR(S): Hirai, Koichi; Fujimoto, Katsumi; Iwnao, Yuji;
 Matsui, Yoshiki
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 76 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 283310	A1	19880921	EP 1988-302414	19880318
EP 283310	B1	19930526		

R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

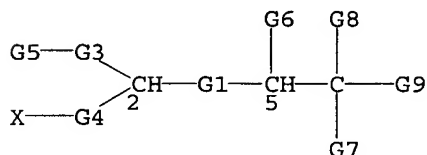
US 5028610	A	19910702	US 1988-167354	19880314
JP 01063569	A2	19890309	JP 1988-64125	19880317
AT 89822	E	19930615	AT 1988-302414	19880318
CA 1326027	A1	19940111	CA 1988-561899	19880318
ES 2056913	T3	19941016	ES 1988-302414	19880318
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			EP 1988-302414	19880318

GI

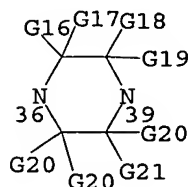


AB The title compds. AMB [I; A = X1C6H4CHC6H4X2; B = CHR1CR2R3NR4R5; R1 = H, alkyl; R2,R3 = H; R2R3 = O; R4,R5 = H, (un)substituted alkyl, aryl; M = 5 to 7-membered (un)substituted ring containing 2 N-atoms bearing A and B, resp., as substituents; 1 of X1,X2 = halo and the other = H, halo] were prepared 1-(4-Chlorobenzhydryl)piperazine was stirred 7.5 h at 80° with ClCH2CONHC6H2Me3-2,4,6 in DMF containing K2CO3 to give benzhydrylcarbamoylmethylpiperazine II which prolonged survival of mice in a 4% O environment by 93% at 30 mg/kg i.p.

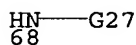
MSTR 1



G1 = 36-2 39-5



G9 = 68



G27 = CH2Ph

G16+G17= O

G18+G19= O

Generic group attributes: 35 <containing 1-6 C>

Derivative: and pharmaceutically acceptable salts

Patent location: claim 1

L13 ANSWER 2 OF 2 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 101:151887 MARPAT

TITLE: 1-(4-Aminobenzyl)-2,3-dioxopiperazine
derivatives and saltsINVENTOR(S): Hori, Takako; Yoshida, Chosaku; Kiba, Yasuo;
Takeno, Ryuko; Nakano, Joji; Nitta, Jun;
Kishimoto, Sumiko; Murakami, Shohachi; Tsuda,
Hisatsugu; Saikawa, Isamu

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd. , Japan

SOURCE: U.S., 13 pp. Cont.-in-part of U.S. Ser. No.
169,457.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

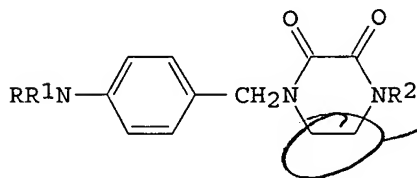
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4459407	A	19840710	US 1982-345055	19820202
JP 56018969	A2	19810223	JP 1979-93234	19790724
JP 05057272	B4	19930823		
US 4436921	A	19840313	US 1980-169457	19800716
JP 57140783	A2	19820831	JP 1981-15837	19810206
JP 63066319	B4	19881220		
US 4460774	A	19840717	US 1982-348271	19820212
US 4477666	A	19841016	US 1982-348272	19820212
US 4448963	A	19840515	US 1982-351257	19820222
US 4477664	A	19841016	US 1982-351256	19820222
PRIORITY APPLN. INFO.:			JP 1979-93234	19790724
			US 1980-169457	19800716
			JP 1981-15837	19810206

OTHER SOURCE(S): CASREACT 101:151887

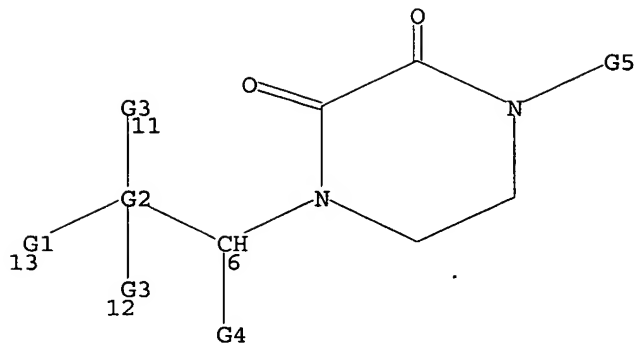
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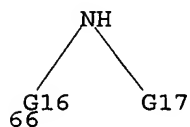
No R2

AB The carcinostatic title compds. I (R = pyrimidinyl, R1 = (un)substituted C1-8 alkyl; R2 = C1-8 alkyl, aralkyl) were prepared. Thus, 1-(4-ethylaminobenzyl)-4-hexyldioxopiperazine was treated with 2-bromopyrimidine to give I (R = 2-pyrimidinyl, R1 = Et, R2 = hexyl). At 110 mg/kg I (R = 2-pyrimidinyl, R1 = MeOCH2, R2 = benzyl) increased the mean survival days of mice with inoculated L-1210 leukemia cells by a test group/control group ratio of 177%.

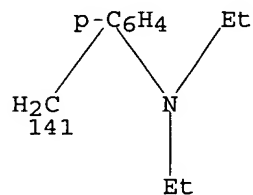
MSTR 1



G5 = 66



G16 = CH₂CH₂
G17 = 141



Patent location:
Note:

claims
record may include structures from
disclosure